

19980209.qrp v00_n996.qrs.980209

Date: Mon, 9 Feb 1998 19:03:20 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 996

QRP-L Digest 996

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by wa5whn@juno.com
- 5) [3360] pics, dsp, etc
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- 6) [3361] Re: Auction in Dallas
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- 7) [3362] Re: Interesting analogy about HTML
by nilsbull@juno.com (Nils R Young)
- 8) [3363] FYBO & RTTY & stuffage
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- 9) [3364] Re: How to send a file?
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by Roger Hightower <n7kt@earthlink.net>
- 11) [3366] Grid Dip Meter?
by Rick McNelly <72507.235@compuserve.com>
- 12) [3367] Re: Wideband 2n2 amp
by "Ralph L. Irons" <rli8m@weyl.math.virginia.edu>
- 13) [3368] Found: 1 Ea. NA5N FYBO Logbook!
by Brian Kassel <bkassel@dancris.com>
- 14) [3369] Re: AZ/NM FYBO pics
by Jim Parsons <k5rov@worldnet.att.net>
- 15) [3370] Re: How to send a file, Thanks
by Monte Stark <ku7y@dri.edu>
- 16) [3371] Re: Wilderness product in Europe
by Frank <frank001@postoffice.worldnet.att.net>
- 17) [3372] Re: Found: 1 Ea. NA5N FYBO Logbook!
by "Timothy J. Pettibone" <tpettibo@nmsu.edu>
- 18) [3373] FYBO Scoring?
by David Gauding <david.gauding@bbs.galilei.com>
- 19) [3374] Re: Sierra 10 m module component values?

- by Frank <frank001@postoffice.worldnet.att.net>
- 20) [3375] FYBO, 15 meter lament
by gregoire@endor.com
- 21) [3376] N6KR/QRP trip report: Yosemite w/SST-30
by "L.Svec,W.Burdick" <svecbrdk@well.com>
- 22) [3377] mailing lists?????
by "Brandon Brinkley" <ac4ou@mail2.wilmington.net>
- 23) [3378] Re: Windows versus Unix.
by Jess Gypin <jessqrp@concentric.net>
- 24) [3379] Re: Grid Dip Meter?
by "David D. Meacham" <ddm@datatamers.com>
- 25) [3380] Re: New FCC spectral purity standards
by Sam <kc5tja@animeonline.ml.org>
- 26) [3381] Re: How to send a file?
by launerb@crl.com (William H. Launer)
- 27) [3382] Re: Elmer101
by "Frank A. West" <ke6vhm@earthlink.net>
- 28) [3383] Re: AZ/NM FYBO pics
by Lynn Simons <lsimons1@ix.netcom.com>
- 29) [3384] HW-9 SWAP - SALE - FIX IS GONE TO A QRPer
by Grover and Doris T <hapence@pop.erols.com>
- 30) [3385] Re: Grid Dip Meter?
by W7LS <w7ls@blarg.net>
- 31) [3386] Re: Found: 1 Ea. NA5N FYBO Logbook!
by Paul Harden <pharden@aoc.nrao.edu>
- 32) [3387] More darn HTML
by Paul Harden <pharden@aoc.nrao.edu>
- 33) [3388] re: Help with Sierra 10M band module
by "Heron, George" <G.Heron@dialogic.com>
- 34) [3389] [3353] KK6MC/5 Preliminary FYBO Results - 15m Contacts
by lenriquez@pacific.simoco.com (Luke Enriquez)
- 35) [3390] Re: Found: 1 Ea. NA5N FYBO Logbook!
by "Michael Connor" <mikec@primenet.com>
- 36) [3391] Tests on Radio shack 100 uH coils
by mike czuhajewski <wa8mcq@abs.net>
- 37) [3392] Re: Grid Dip Meter?
by Leon Heller <leon@lfheller.demon.co.uk>
- 38) [3393] Re: Grid Dip Meter?
by "Ray Lowe" <wd5dhk@hotmail.com>
- 39) [3394] New QRP Web Page
by "ALAN KAUL" <alan.kaul@worldnet.att.net>
- 40) [3395] FYBO results
by Greg Weinfurtner <gweinfurt1@ohiou.edu>
- 41) [3396] QB6JBM FYBO Initial Results (unverified)
by Richard Powell <ripowell@mpna.com>
- 42) [3397] SMiTe interim report
by hodgins@rtp.semi.harris.com (Bob Hodgins 919- 405-3620)
- 43) [3398] FYBO Report

by ab5uacw@juno.com (Clifton W Sikes)

44) [3399] FYBO: NOGLM
by "Buck, Preston D" <BuckPD@corning.com>

45) [3400] Re: PIC's DSP, and other stuff...
by Jack Parker <Pparker@greatbasin.net>

46) [3401] FYBO REPORT
by QLF%mimi@magic.itg.ti.com

47) [3402] Sun Equip Corp Pwr Mtr.
by Chuck Carpenter <w5usj@webwide.net>

48) [3403] SMiTe #90 & #91
by nq2rp@juno.com (B/BAMS Club Station)

49) [3404] Correction - MD MW FYBO score - 75k!
by "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>

50) [3405] I'm just not contest-savvy
by Patrick Franzis <franzis@esun19.gdc.com>

51) [3406] peter anderson & PICS. etc
by aa7hq@aa7hq.seanet.com (edward c guilford)

52) [3407] FOC
by "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>

53) [3408] QRP Tuner Results
by Chuck Carpenter <w5usj@webwide.net>

54) [3409] A Confession and Use 15 M more!
by ji3m@maxwell.com (James R. Duffey)

55) [3410] FYBO fun
by Bruce Grubbs <bog@flagstaff.az.us>

56) [3411] Re: PIC's DSP, and other stuff...
by Steven Weber <kd1jv@moose.ncia.net>

57) [3412] Re: I'm just not contest-savvy
by Roger Hightower <n7kt@earthlink.net>

58) [3413] FYBO, found one at least
by mike@krypton.nmr.Hawaii.Edu (Mike W. Burger)

59) [3414] Locating slant-front project boxes
by "Gene A. Williamson" <genewill@ordata.com>

60) [3415] NQ7RP FYBO & SPRINT
by flydnq7x@primenet.com (Floyd Smithberg)

61) [3416]
by Jonathan Haynes <kc7fys@sa2.so-net.or.jp>

62) [3417] Feb "NWQ" on line & next Meeting
by Bill Todd <bill@willapabay.org>

63) [3418] Re: I'm just not contest-savvy
by Vic Rosenthal <rakefet@rakefet.com>

64) [3419] Re: I'm just not contest-savvy
by Patrick Franzis <franzis@esun19.gdc.com>

65) [3420] Re: Tests on Radio shack 100 uH coils (extremely long)
by gsurrency@juno.com (Gary L Surrency)

66) [3421] Re: Locating slant-front project boxes
by GERALDCUND@aol.com

67) [3422] CW speed, explanation from NF3I

by "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
68) [3423] FOC
by "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
69) [3424] Re: Locating slant-front project boxes
by "S. Lee" <slee@u.washington.edu>
70) [3425] Re: FYBO, found one at least
by Charlie Panek <charlier@lsid.hp.com>
71) [3426] Kits built
by "C.D. Rakes" <cdrakes@ipa.net>
72) [3427] PICs and stuff, part 2 (long)
by Laura Halliday <ve7ldh@direct.ca>
73) [3428] Test messages
by "Marshall Emm" <mgemm@mtechnologies.com>
74) [3429] One Way Skip - DX -- FRUSTRATION!
by "Bruce Barley" <lbbarley@feist.com>
75) [3430] We need a break... Re: Test messages
by "Paul R. Valko" <prvalko@oakland.edu>
76) [3431] WB6JBM Final FYBO Report (Long)
by Richard Powell <ripowell@mpna.com>
77) [3432] FMB0 freaked my brain out
by "Joseph street 1635" <joseph.street@comdev.ca>
78) [3433] Slant-front project boxes
by Ed Manuel <n5em@flash.net>
79) [3434] NQ7RP FYBO
by flydnq7x@primenet.com (Floyd Smithberg)
80) [3435] Re: FMB0 freaked my brain out
by Andy Fox <foxes@theriver.com>
81) [3436] SE Ohio RAT FYBO Report (preliminary)
by William McFadden <wmcfadde@oucsace.cs.ohiou.edu>
82) [3437] RE: Slant-front project boxes
by Kevin Muenzler <wb5rue@stic.net>
83) [3438] Re: NQ7RP FYBO & SPRINT
by Monte Stark <ku7y@sage.dri.edu>
84) [3439] What a weekend: rain, gales, antenna, contests
by "Michael A. Gipe" <mgipe@reliablemeters.com>
85) [3440] status of W6CYX Power mod for NC40, other mods
by "Allan G. Taylor" <ataylor@heracles.llnl.gov>
86) [3441] Re: Slant-front project boxes
by Ed Loranger <we6w@qsl.net>
87) [3442] FYBO "Numb"ers-WQORP
by "Lageson's" <LAGESON@worldnet.att.net>
88) [3443] Re: SMiTe interim report
by "Bob Kellogg" <ae4ic@nr.infi.net>
89) [3444] W1FB Pixie Info
by kh6b@juno.com (Dean W Manley)
90) [3445] Re: One Way Skip - DX -- FRUSTRATION!
by "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>

Date: Sun, 8 Feb 1998 18:26:45 -0600 (CST)
From: William Wyatt <wbw95k@timon.acu.edu>
To: qrp mailing list <qrp-l@Lehigh.EDU>
Cc: Ham-Tech <ham-tech@majordomo.netcom.com>
Subject: [3356] Auction in Dallas
Message-ID: <Pine.BSI.3.95.980208182503.11954A-1000000@timon.acu.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have to go to Dalls next weekend and was wondering if the DARC auction is good enough to drop my fiance at a relatives house while I disappear for a few hours :) ? Thanks for the help.

| | | | wbw95k@timon.acu.edu
| | | | William Wyatt
| /\ | | /\ | KC5ZGH <--Tech Plus // QRP-L member #1339
|/ \ | | / \ | 1 Corinthians 13:13
<http://timon.acu.edu/~wbw95k>
--*** ***-- -** * *- -*-* ***** --** --* ****

Date: Sun, 8 Feb 1998 16:28:23 -8
From: "Dan Hogan" <dhhogan@lightside.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [3357] Re: How to send a file?
Message-ID: <199802090026.QAA14713@mail.lightside.com>

All:

My last time on this (honest)!

Mail Reflectors and Newsgroups were/are set up for TEXT format messages. Any coding makes the file grow and increases bandwidth for the end recipient, intermediate servers (which supply the relay service free) and the home server for the list.

All binary files (.EXE, .ZIP, .JPG, etc.) must be converted to an ASCII to travel the Internet. This usually means UUENCODE/UUDECODE. Most "modern" Email programs do this automatically when you click on send attached file.

MIME is a code developed to send RTF type messages (word processor formatted business letters) between organizations.

Most WEB Browser programs (Netscape, Internet Explorer, etc.) as a default send messages HTML and/or an identity "card". This can be changed to send only TEXT message.

For NETSCAPE (Windows 95) click to:

EDIT/PREFERANCES/MESSAGES

Click on MORE OPTIONS

Click on the button "AS IS..."

Go to: "When sending HTML..."

Click on the button "Always convert the message to plain text."

Or get dedicated programs for each function. Netscape is now free as a WEB browser, Pegasus Mail is free as an Email Client, Free Agent for Newsgroups is free.

Try <http://www.amazom.com>

Dan Hogan WA6PBY

ARRL-VE*QRP-L*QRP-ARCI*NorCal*CQC*Fists*G-QRP*ARS*

Date: Sun, 08 Feb 1998 16:29:08 -0800
From: Laura Halliday <ve7ldh@direct.ca>
To: qrp-l@Lehigh.EDU
Subject: [3358] PICs and stuff (part 1, long)
Message-ID: <34DE4DD4.67A5154@direct.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thanks to those who sent email on the subject...

With the list's indulgence, I'd like to tell you why this is an exciting technology, and why I think hams should be aware of it - and using it!

The subject is a big one, and I don't know how much typing it will take, so I'll write it up in smaller, periodic instalments.

In this part, an introduction: what is a microcontroller,

what can I do with it, and what do some of these terms mean?

A microcontroller is a specially packaged small computer. They are designed to be the brains of other devices, and not to be visible as computers. They are the gadgets, for example, that turn a frequency like 7030 kHz into DDS or PLL programming data.

Microcontrollers are designed to be cheap, to be easy to use, and to be self-sufficient in hostile environments. The cheap part is obvious - they are merely an adjunct to something else. Easy to use: the people using them have products on their mind; the microcontroller is just a tool. And tough and self-sufficient, which is handy for us, since they are *very* hard to kill. By design...

Typically, a microcontroller will have just about all the stuff it needs to run already built in. This includes data memory, program memory and various sorts of configuration information. To make a PIC16C84 like the one I've been playing with this afternoon go, for example, you need a source of 5 volts (they aren't picky about this), and an oscillator, which could be a crystal and two capacitors, a ceramic resonator and two capacitors, or a resistor and capacitor for applications where they don't need to time things accurately. In other words, not a heck of a lot.

What can you do with them? In theory, any function you can express as reading information ("input"), doing something with it ("processing"), and causing something to happen as a result ("output"). We've already seen delights like the TiCK keyers, built around the PIC12C508. The microcontroller watches paddle closures (input), logically decides what Morse elements the user wants to send (processing), and emits them (output). There should be lots more where that came from.

To make any computer work, you have to tell them - in excruciating detail - what you want them to do. Worse, computers have absolutely no intuition or imagination - they will do *exactly* what you told them to do. Not what you thought you told them to do. This is where bugs are born... :-)

While I've only mentioned Microchip's PIC microcontrollers so far, all processor manufacturers make microcontrollers. Some are conceptually similar to the PIC series, like Motorola's 68HC705 family. Others are powerful, but still self-contained, like ones Intel make that are based on the 80386. Older microprocessors like the 6800 and Z80 live on as micro-

controllers...

Some vocabulary: RISC stands for Reduced Instruction Set Computer, a way of designing those detailed instructions computers execute. As systems grow and mature, they gain additional functionality, which often shows up as additional instructions the computer hardware can execute. On many systems, there are very complicated instructions that may be handy, but which are difficult or time-consuming to use. As a result, they rarely ever get used, with programmers preferring to stick to a subset that is easier to use and understand. The inventors of RISC decided to pare the instruction set down to its essentials - the result is that the chip can run faster, because it has less to do. It is cheaper to produce, because it is simpler. While you have to execute more simple little instructions to get things done, you can execute them very quickly, with net results that are faster and cheaper.

For us hams, RISC computers make it a lot easier to tell how long a given sequence of instructions will take to execute. This is critical for, among other things, DSP applications. It also has implications for bragging rights. :-)

The Harvard architecture is a way of organising the programs the computer executes, and the data those programs use. In the traditional von Neumann architecture, everything lives in one big pool of memory. This can cause problems for very fast computers, where the processor must obtain an instruction from memory, then access memory through the same internal channels to obtain any data related to that instruction. If this sounds like a bottleneck, you're right.

A Harvard architecture computer has separate memories for programs and data. Theoretically, such a computer can obtain instructions from the program memory and data from the data memory simultaneously. This gives performance benefits, which is why it is so popular for DSP chips. In the case of PIC microcontrollers, Microchip have taken advantage of the separate memory to make the word lengths different - data memory is 8 bits wide, while each word of program memory is 12-16 bits wide (depending on the processor model), so that all instructions fit in one word, making them easy and fast to decode and process.

Some numbers: the PIC16C84s I'm playing with have room for 1024 instructions, with 36 bytes of RAM for data. They have 13 connections for input and output. They run at clock speeds from

DC to 10 MHz. In onesies and twosies, Digi-Key want less than \$US10.00 for them. I bought a 16C84 at a local electronics store the other day for \$CDN9.99. My programmer, while it only programs 16C84 and the newer 16F84, would have cost less than \$5 to make with all new parts. As it was, I decided to splurge on a new DB-25 connector to hook it up to my PC...

Much of ham radio these days consists of using other peoples' toys to solve our problems. Here is another toy - what can we do with it?

If this is the sort of stuff people want to hear, let me know (*privately*, please!) and I'll continue, If not, let me know (ditto), and I'll desist. Either way, thank you for your indulgence. We now return you to our regularly scheduled QRP-L...

...laura

Date: Sun, 8 Feb 1998 17:27:12 -0700
From: wa5whn@juno.com
To: qrp-l@Lehigh.EDU
Subject: [3359] FYBO '98 {WA5WHN/7} Pinetop, Az.. {Long}
Message-ID: <19980208.172806.2734.1.wa5whn@juno.com>

qrp-lers,

WOW !!! Friday night {Feb. 6th}, a wonderful spaghetti dinner, courtesy of the Hightower Family {KI7MN, N7XJS, N7KT} @ N7KT's In_Law's place in Pinetop. AB7OA & His Lovely Bride, N7XJS, KI7MN, NQ7K, N7KT, W5VBO, AB7TT & family {Thanks Steph for allowing Joe to come out and play with all of us.}, W5BI, N5ZGT & his Dad {Pat}, K5OI, NA5N & I were just enjoying each other's company, @ FYBO '98 Hq.. AB7TT had brought his ZM-2 to the table, with a problem. With NQ7K's good hand -eye coordination, he had located the problem. It was a problem that W5BI had put so bluntly. AB7TT has a shorted shaft, =8-0 , in his ZM-2. W5BI had his tool box with him, and NQ7K had proceeded to ream a larger hole for one of the variable capacitors. After NQ7K had reamed the shaft hole a bit larger, the short had disappeared {ZM-2}. A little electrical tape, a larger hole & AB7TT was in business. Needless to say, this was a subject of much laughter & conversation. We had discussed some upcoming projects. Hint: When N7KT posts the photos, for FYBO '98, you may accidently see a photo of one of the future projects. ; -)

Next morning; N5ZGT & His Dad, W5BI & I head for Morgan Mountain Fire Road. Our site was at the following location, according to 2 Garmin 12XL

GPS receivers;

Latitude 34 degrees 11.755 minutes north
Longitude 109 degrees 51.889 minutes west
elevation: 7,387 feet asl {off of the Morgan Mtn fire road}

60+ feet ponderosa pines, dense forest, .5" of fresh snow on the ground.

The 3 of us had set up within 200 feet of each other. N5ZGT had decided to operate out of the back seat of His Dad's Land Cruiser. Brian will describe what he was using later in a note. W5BI was set up in the cab of his 4WD S-10 pick up {windows down}, using his IC-706 set to 5 watts into a hustler mobile antenna. I was set up under some ponderosa pines trees with a G5RV up 35 feet. First lesson: Never use a MFJ 259 SWR analyzer while everyone else is trying to work stations. It sure does radiate all over the place in close proximity. Second lesson: Never purchase .39 {US} per roll, nylon string. There is a reason why it is only .39 per roll. Yes, my G5RV had come down, while the ponderosa pines were swaying in the 10+ mph winds. In fact, it had come down while I was working KI6DS. Third lesson: those rigs with NE602's on the front end, are easily overloaded with just a few microwatts of radiated energy. Fourth lesson: never send faster than 12 wpm with gloves/mittens on, even thin ones.

The weather; well, it's FYBO, we were snowed on, the temperature had dipped to 31 deg. F to a high of 36 deg. F. I had tossed a rain parka over the radio gear. {N7KT has photos}. I was dressed for this type of climate, and was quite snug & warm. Down right balmy @ 33 deg. F. AB7TT was further up in altitude, but You will have to read Joe's report, on how he defended his station from the attacking snow boarders & skiers.

Heard KL7JAF, but he did not hear me. :-(I was running a Sierra set @ 1 watt. N7CEE @ 900 milliwatts, nice signal. Several S-9 signals, until the NA Sprint & FOC contests had clobbered us on 20 meters. So we had tuned up on the 40 meters band. Where were the Novice/Techs ? We were really enjoying ourselves. I had talked to several stations that were 599. Solid pipeline into Calif., Colorado, New Mexico, Texas & Utah. Great working the home crowd {KK6MC/5, WB5QYT}. I had switched to the QRP Plus @ 1 watt, since I had wanted to play with both xcvs.

I think I have 28 Q's, and 3 long QSOs @ 31 deg. F & 1 watt. We did not operate the entire period, simply because we had wanted to get off of the mountain before dark. As NA5N had told us "We did not break 100 Q's because of El Nino." :-)

A Navajo County Sheriff had visited us. He had spotted our tracks off of the road, in the snow. He was just checking to see if we were OK. He nearly got stuck in a snow bank.

Saturday night {Feb. 7th}, we had all met back @ N7KT's In_Law's place for beans, chili, tamales, barbeque ribs {all the way from Albuquerque, courtesy of N5ZGT & his Dad}, plus chocolate ice scream {We did, so W5BI & N5ZGT had departed to pick some up}. AB7TT had showed back up around 7:50 PM. 6 layers of clothes Joe ? Again, You will have to hear the stories of the snow boarders & skiers that Joe had harassed. ;-) The Pinetop, Az. crew were spread out over a 30 miles area. We had maintained contact, with each other, on 146.46 MHz FM simplex.

Sunday morning, we {except for N7KT} at met in Show Low, Az. @ the Denny's restaurant for breakfast. These Az. scQRPions are really very nice People. We had departed and W5BI & I were working stations in the NH QSO party on 15 & 20 meters SSB mobile. 5/9+ {80 watts into a Hustler bumper mounted mobile antenna}, plus several QSOs later, we were back home.

Would we do this again ? Heck yes !! Don't forget the NorCal QRPTTF '98 in April. Are You running for the borders ?

<http://www.swcp.com/~n5zgt/n4c/>

{If You are using AOL & Explorer, one of the photos may look wrong, it's being fixed.}

My thanks to the Az. scQRPions for allowing us to cross the border, and enjoy each other's company and thanks to all of You who made this a very pleasurable experience.

72...Jay, WA5WHN DM65qd

Albuquerque, NM

PS Guess where we are going for next year's FYBO ? Oh !! One of the planned upcoming SW USA SES's, You will want one of the QSL cards, but that will have to wait, until after this year, to explain why. Ooooh, a mystery. ;-)

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 8 Feb 1998 16:39:26 -0800 (PST)
From: aa7hq@aa7hq.seanet.com (edward c guilford)
To: qrp-1@Lehigh.EDU
Subject: [3360] pics, dsp, etc
Message-ID: <199802090039.QAA17080@mx.seanet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

NO! NO! NO!

don't wait for others to tell you by posting on the net. do it!
do what laura has done: she has made a programmer and used it!
if you are serious about learning pics etc, do it yourself, and people
will gladly help, but they don't have time or energy to do it for you.

two suggestions for getting started. each is but one of a great many ways
to take the first step.

1. read peter anderson's web site at morgan state.
2. buy a counterfeit stamp from scott edwards. find his ad in nuts and volts.

for something of this sort to admire, look at the TICKs! this can be hard
going, but a lot of fun!

73 de ed

Date: Sun, 8 Feb 1998 19:03:41 -0600 (CST)
From: William Wyatt <wbw95k@timon.acu.edu>
To: "Christopher (Chris) W. Boone" <cboone@earthlink.net>
Cc: qrp mailing list <qrp-1@Lehigh.EDU>, Ham-Tech <ham-tech@majordomo.netcom.com>
Subject: [3361] Re: Auction in Dallas
Message-ID: <Pine.BSI.3.95.980208190224.15261B-100000@timon.acu.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

MY MISTAKE. The action is the 21st and not the 14th, as Chris Boone
pointed out to me. Thank Chris for the correction. I sincerely apologize
for the mistake and any problems it may have caused anyone. 73.

| | | | wbw95k@timon.acu.edu
| | | | William Wyatt

| /\ | | /\ | KC5ZGH <--Tech Plus // QRP-L member #1339
|/ \ | |/\ \ | 1 Corinthians 13:13
<http://timon.acu.edu/~wbw95k>
--*** ***-- -** * -*- *-x ***** --** --* ****

Date: Sun, 8 Feb 1998 08:11:34 -0500
From: nilsbull@juno.com (Nils R Young)
To: QRP-L@Lehigh.EDU
Cc: jessqrp@concentric.net
Subject: [3362] Re: Interesting analogy about HTML
Message-ID: <19980208.201204.12198.0.nilsbull@juno.com>

Jess,

Dead on, chicken lips! Maybe we all need a couple analogies now and then.

I understand they're better 'n thorazine. Well, maybe, 'cept you can't find 'em doors like closed in the frigerator come along science tested for <seen 'em in the> them gerbil lookin' <subtext=derrida> things on televsion all the time you know? Yep. Ready to go home. No longer mentally <narapela olsem biktaim bagarap> deaf.

I can <P> hear the </P> voices again.

73
Nils

Nils R. Bull Young
La Estancia de los Guajolotes Sonrientes :: The Grinnin' Turkey Ranch
WB8IJN &c :: The Tagalong Press :: email to: nilsbull@juno.com
<http://www.fortunecity.com/victorian/mehetebell/94>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 8 Feb 1998 20:11:57 -0500
From: nilsbull@juno.com (Nils R Young)
To: QRP-L@Lehigh.EDU
Subject: [3363] FYBO & RTTY & stuffage
Message-ID: <19980208.201204.12198.2.nilsbull@juno.com>

Amigos

Well, it was cold enough. For a while. And it was the weekend. For a while. But I didn't do much about FYBO. Instead I stayed home, dosed the 10-year-old & worked on the next version of my much debated concatenation of web space fillers.

And colorized the almost faded picture of a beautiful woman with whom I once shared bubble gum, living quarters & a couple hundred CCs of bicillin. Or whatever it's called. Hell, might have been tetracycline for all I know. Kathy Alexander. Beautiful face. Last time I heard about her serious was she'd become a belly dancer. I can imagine. I miss her smile. (She's on the web pages.)

Anyway, I also tried out some downloads of RTTY and CW decode/transmit/badger programs. One of 'em actually worked for a while. I was like copying RTTY again. For the first time in 20-odd years. Last time was on a USNR drill week in Virginia, the Driver transmitter site (which I understand now is a dormitory for ex-belly dancers). Very interesting seeing all that spectrum stuff on the screen. (Really makes me appreciate narrow filters. Or not having a spectrum analyzer.)

So I wasn't there. Kill me. Or send me \$20. Or find Kathy Alexander and tell her that I still have her picture. (Like a line from a Puerto Rican salsa song: "despues de tanto tiempo/hoy pido poco.... no me acostumbro . . .")

Now, where's that badger ointment. (Got a new pair of boots too. And new glasses . . . which I have to wait a week for 'cause I wanted the fancy coating to reduce glare and back scatter. Yeah, it happens in vision too . . .)

73
Nils

Nils R. Bull Young
La Estancia de los Guajolotes Sonrientes :: The Grinnin' Turkey Ranch
WB8IJN &c :: The Tagalong Press :: email to: nilsbull@juno.com
<http://www.fortunecity.com/victorian/mehetebell/94>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 8 Feb 1998 20:20:40 -0500
From: "John J. McDonough" <jjmcd@mdn.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [3364] Re: How to send a file?
Message-ID: <199802090119.3448600@midland2.mdn.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

> From: Dan Hogan <dhhogan@lightside.com>; owner-qrp-1@Lehigh.EDU
>
> For NETSCAPE (Windows 95) click to:

For the mail that come with Internet Explorer 3.x:
 Select Mail->Options
 Select the 'Send' tab
 At the bottom of the dialog, select 'Plain Text'
 If you've been futzing with settings already:
 Push the 'Settings' button
 Select MIME
 Select Encode Text Using 'None'
 Click OK
 Click OK

73 de WB8RCR

Date: Sun, 08 Feb 1998 18:29:28 +0000
From: Roger Hightower <n7kt@earthlink.net>
To: qrp-1@Lehigh.EDU
Subject: [3365] AZ/NM FYBO pics
Message-ID: <34DDF988.FC4B2E63@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

OK gang...check out:

<http://home.earthlink.net/~n7kt>

to see the pics. Any flames, send 'em to me. Gracias to Jay for over half the photos.

--

72/73, de Roger, N7KT

Date: Sun, 8 Feb 1998 20:27:45 -0500
From: Rick McNelly <72507.235@compuserve.com>
To: qrp-l@Lehigh.EDU
Subject: [3366] Grid Dip Meter?
Message-ID: <199802082031_MC2-3281-6056@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Hello All,

I am trying to put together a fair amount of test equip to play with. So far I have a 75Mhz scope, an Audio Sig Gen and of course a DVM. I have successfully built a Wilderness Sierra, WM-1 and an AT-11 Auto tuner and I've signed up for the elmer project to learn and experiment more.

Would a Grid Dip meter be a good next step? I've seen used ones with manuals at hamfests for \$50 or \$60. Is this a good price? Would I be better off saving up and getting a freq counter or RF sig gen or one of those SWR analyzers?

72/73's,

--Rick, KE4IZH

Chesapeake, Va.

Date: Sun, 8 Feb 1998 20:39:04 -0500 (EST)
From: "Ralph L. Irons" <rli8m@weyl.math.virginia.edu>
To: qrp-l@Lehigh.EDU
Subject: [3367] Re: Wideband 2n2 amp
Message-ID: <Pine.A32.3.93.980208203601.13376A-100000@weyl.math.Virginia.EDU>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Leon,

Thanks for sharing your design! This should be a very useful building block!

72, Ralph N7RI

Date: Sun, 08 Feb 1998 18:43:32 -0800
From: Brian Kassel <bkassel@dancris.com>
To: QRP-L <QRP-L@Lehigh.EDU>
Subject: [3368] Found: 1 Ea. NA5N FYBO Logbook!
Message-ID: <34DE6D54.7C23@dancris.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Forgive the BW, but I don't have Paul's E-MAIL address.

Yo!

I found your missing logbook, Paul.

I'm giving it to Joe, AB7TT, to enter, and I'll send the complete book back to you,
if you'll send me your shipping address.

Turns out, it must have fallen out of the bunch of stuff that Roger, N7KT, gave me to give to Tim. I found it under the seat of my camper cab.

All is well.

Strange though, we just happened to glance at the entries, and well, err there seems to be quite a bit fewer QSO's than the 231 that you had told us about at breakfast in Show Low, AZ.

And that JY1 QSO with your old buddy King Hussein, well, err we couldn't find that one either.

And, gosh, I don't see many, well actually none, of those G3 QSO's that you

had told us about as well.

Hmm, I'm sure that the book that I found is probably just a small portion, a tiny fraction, of the actual complete logbook that you are submitting, right?

Your ScQRPion serial number is in the mail ;)

You *REALLY* deserve one :o

--

Brian Kassel W5VB0
ARCI # 3623
Phoenix AZ ScQRPions

Date: Sun, 08 Feb 1998 19:48:09 -0600
From: Jim Parsons <k5rov@worldnet.att.net>
To: n7kt@earthlink.net, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [3369] Re: AZ/NM FYB0 pics
Message-ID: <3.0.3.32.19980208194809.007a8540@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Great pictures, Roger. Made me wish I was there (almost...snow sure looks cold to a west Texan!).

Jim, K5ROV

At 06:29 PM 2/8/98 +0000, Roger Hightower wrote:

>OK gang...check out:

>

><http://home.earthlink.net/~n7kt>

>

>to see the pics. Any flames, send 'em to me. Gracias to Jay for over

>half the photos.

>--

>72/73, de Roger, N7KT

>

>

James (Jim), Parsons, K5ROV USAF, Ret.
k5rov@worldnet.att.net QCWA, NWQRP, Fists, ARRL
EX: W1RLA, K5FBB, K4FEO, SV0WN (CRETE), SV0WN (RHODES),

DL4NC, DL4JP, KA2FC (JAPAN), KA2JP (JAPAN).
JOHN 3:16

Date: Sun, 08 Feb 1998 17:47:46 -0800
From: Monte Stark <ku7y@dri.edu>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [3370] Re: How to send a file, Thanks
Message-ID: <34DE6042.15B73EC1@dri.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Too many replies to send each one a thank you.

Cut and Paste seem to be the only way anyone knows to put a text file
into the body of a Netscape mail message.

Thanks again.

QBQRP:

Bands have been good for DXing. Keep checking 15m. The A35 was blasting
in with very few takers. Easy QRP catch.

--

73, Ron, KU7Y

NRA Life-----Ex W6JX0, DL4RF, N7CRV-----SOWP #5545-M
QRP ARCI #8829----NorCal #330----QRP-L #17-----ARS #49
AR QRP #150-----DM09cg-----New Washoe City, NV

Date: Sun, 08 Feb 1998 18:05:40 -0800
From: Frank <frank001@postoffice.worldnet.att.net>
To: Paolo.Sassoli@italtel.it
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [3371] Re: Wilderness product in Europe
Message-ID: <34DE6474.7D3D@postoffice.worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Paolo Sassoli wrote:

>
> Hi to all.
>
> Can anyone post me the e-mail address of the european distributor of the
> wilderness product?
>
> I remember he's in the U.K. but nothing else.
>
> Thanks a lot.
>
> Paolo IK2LNH

Try
Hillock Projects
Frulingstr. 10
89438 Holzheim
Germany

tel 09075-1800

e-mail 100760,1724@compuserve.com

Good luck es 73 Frank W6EV

Date: Sun, 08 Feb 1998 19:02:15 -0700
From: "Timothy J. Pettibone" <tpettibo@nmsu.edu>
To: bkassel@dancris.com
Cc: qrp-1@Lehigh.EDU
Subject: [3372] Re: Found: 1 Ea. NA5N FYBO Logbook!
Message-ID: <3.0.3.32.19980208190215.006901cc@dante.nmsu.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Brian:

Great! I was feeling really guilty about mislaying Paul's log (yeah, right!) So it doesn't show the exact number of Qs he claims? Hmmm. Thanks.

Tim K5OI

p.s. It was great meeting you guys. By the way, I DO have a certificate showing the number 26, but it shows my old call AB5OU!

Date: Sun, 08 Feb 1998 20:00:36 -0600
From: David Gauding <david.gauding@bbs.galilei.com>
To: qrp-1@Lehigh.EDU
Subject: [3373] FYB0 Scoring?
Message-ID: <1.5.4.32.19980209020036.009fb85c@bbs.galilei.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gang,

I'm looking for the website with the rules/scoring for FYB0!

For NF0R:

Band	QSO	SPC
20M	20	15
40M	11	11
Total	31	26

50F and sunny at the operating location. One watt from an Argosy II on gel-cells to the St. Louis Express vertical prototype (a.k.a. "Son of SLV") over a half dozen St. Louis Radials. About four hours on the air. Six guys pulled up in a van at the schoolyard where I was operating, unloaded and launched a hot air balloon. The riders were up & away in less than fifteen minutes, van off in hot pursuit. Amazing!

Really enjoyed the contest including dodging the rtty/amtpr stations to make/finish contacts. Our little part of the hobby really is blessed with sharp CW ops! Special mention due KL7JAF for a masterful demonstration of same on 20M. Also, worked a PJ9 at the bottom of 20M but haven't nailed down his location yet. Nice surprise to find W0RSP calling me on 40M.

Anyway, if someone will point me towards the rules/scoring that will be appreciated.

Many thanks,

de dave, NF0R nf0r@slacc.com

Date: Sun, 08 Feb 1998 18:15:07 -0800
From: Frank <frank001@postoffice.worldnet.att.net>
To: Arjen.Raateland@vyh.fi
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [3374] Re: Sierra 10 m module component values?
Message-ID: <34DE66AB.4FF3@postoffice.worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Arjen Raateland, FEI/Impacts Research wrote:

>
> I have a Wilderness Sierra, whose manual dates from Dec. 1995.
> Somewhere it says to get the latest component values for the 10 m
> module from Wilderness. To get ready for the sun spots I recently
> ordered a 10 m module from Wilderness, but there was no information on
> any changes. Still I have a scribbled note in the manual saying that
> L3 and L4 should be 20 t instead of 16 t.
>
> Does anybody have a bearing on this module?
>
> I know about the optimized values for the low-pass filter by Dave
> Meacham, but are there other changes perhaps? The components all check
> out with the manual, but who is to tell if the number of turns on the
> inductances should be different from the manual.
>
> thanks very much, oh2zaz
> Arjen Raateland
> ---... --- --... . --- --- --... .- ---...
> Finnish Environment Institute, Helsinki, Finland
> SAS Support
> EMAIL: Arjen.Raateland@vyh.fi
> tel. +358 9 4030 0457
> fax +358 9 4030 0490
> ..-.-.-.-

Just finished the 10m module for my Sierra. I used the following values
per Rev B, 9-16-96 of Appendix D parts list. Worked out fine for me:

L1 18T #28

T1 Sec same as L1; PRI 2T #26
L3,L4 16T #28
L5,L6 10T #26
L8,L9 22T #28

73 Frank W6EV

Date: Sun, 8 Feb 98 20:48:13 PST
From: gregoire@endor.com
To: Low power amateur radio discusion <qrp-1@Lehigh.EDU>
Subject: [3375] FYBO, 15 meter lament
Message-ID: <Chameleon.980208211552.GREGOIRE@Gregoire.endor.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hello Gang,

FYBO was a lot of fun,

BUT, it would have been much better if y'all had checked
15 meters.

It IS a ham band you know!

I did 4, count them now, F O U R, contacts in an hour
on 15 meters. The antenna here on 15
is a 7 element yagi up 72 feet.
Anyone who wanted to could hear me even at 5 watts.

I made noise on 15 for a couple of hours, lots of room
very good signal reports back, as a matter of fact,
excellent signal reports back. Sheeeeeesh!

What will it take to get you guys to look at another
band once in a while? I announced it on the
reflector too.

Where are all the Index Labs rigs?
Where are all the Wilderness rigs?
Where are all the Ten Tec Scout, and Argos?
Where are all the Green Mountain 15's?

There, I feel much better now!

Funniest contact was a nameless ham that just
got a 229, rst from me.
Then his signal came booming up to a 559 in a flash.
He said he just connected his antenna! :-) ;-)

The guy in Cuba must have thought I was crazy,
because I kept asking for his temperature.

BTW it was 22c.

50 Total qso's,

5 thrown out for incomplete info.

45 TOTAL QSO=45X24=1080
41 USA
4 DX CT1,KL7,C02,VE3,

5 WATTS OUT, HOME LOCATION, WINDOWS CLOSED
TEMP 70.

RATS, NEXT TIME I'LL OPEN THE WINDOW AND GET THE MULTIPLIER.
I SHOULD HAVE READ THE RULES CLOSER.

73

de AA1IK, Time the accursed enemy of man,
Ernie Gregoire cursed youth for going to slow
 and by the old for going to fast.

R.R. 1, Box 221,
South Rd. Fists # 2644,ARCI # 9500
Canaan, NH. 03741 QRP-L # 95, Fly fisher & tier,
 Promise Keeper.

E-mail address: gregoire@endor.com

packet address: AA1IK@WA1WOK.FN43FE.NH.USA.NA

02/08/98 20:48:13

Date: Sun, 8 Feb 1998 18:22:56 -0800
From: "L.Svec,W.Burdick" <svecbrdk@well.com>
To: qrp-1@Lehigh.EDU
Subject: [3376] N6KR/QRP trip report: Yosemite w/SST-30
Message-ID: <v03102802b1041548d9c5@[206.169.227.232]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Finally managed to get out of the house and do a little X-country skiing this weekend. Yosemite was nearly a white-out much of the time, but it cleared just enough to be awesomely beautiful out on the Badger Pass trail. At the lodge, huge fluffy snowflakes, illuminated from below by outdoor lights, entertained my seven (!) female companions and I. (OK, one of them was my wife; I'm the token male in this group.)

At the hotel, we managed to snag a top-floor unit with a perfect antenna-tree just off the deck, so getting in a little operating time was a snap. In fact, this was the first time I've actually gotten the SST out of the house, too. It looked so small next to the battery and keyer paddle that it was a bit surreal to have long QSOs with N7FC in Tuscon, AZ, and another with N7XSS in Mesa, AZ. (By the way, the miniature, wooden-base keyer paddle was a gift from Fran, KA3WTF, and it worked great. Thanks again, Fran!)

I experimented with a new, simplified antenna arrangement this time. All I did was cut two lengths of #20 insulated wire to 234/F, $F = 10.1\text{MHz}$. I connected the wires to a BNC-to-screw-terminal adapter and connected it directly to the rig--no tuner, no coax. Then I tossed one end through the deck door into the tree, and laid the other end around the perimeter of the room. Surprising results! I heard quite a bit of DX.

With any luck my next outing will be a one-week solo Vanagon trip around the deserts of southern California at the end of February.

72,
Wayne
N6KR

Date: Sun, 8 Feb 1998 21:36:23 +0000

From: "Brandon Brinkley" <ac4ou@mail2.wilmington.net>
To: qrp-1@Lehigh.EDU
Subject: [3377] mailing lists??????
Message-ID: <199802090237.VAA19967@mail2.wilmington.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Hello all:

Is there a message list that deals with (ham) equipment for sale only?

I am looking for an Icom 2350 2m/440 dualband mobile rig..

Thanks...

Brandon Brinkley AC40U
brandon@wilmington.net
ac4ou@wilmington.net

Date: Sun, 08 Feb 1998 19:40:08 -0700
From: Jess Gypin <jessqrp@concentric.net>
To: Paul Erickson <paul1@wizard.ucs.sfu.ca>, qrp-1@Lehigh.EDU
Subject: [3378] Re: Windows versus Unix.
Message-ID: <34DE6C88.48BF7BCB@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

There really is not joke...It's just at work it's always the Unix vs. Dos argument...There are lots of good web browsers for Unix...Eudora for mail, Netscape for the web...I run Solaris on Sun boxes at work and the work PC is a Sun. I run a PC at home...Go figure. My intent was just to say that if you said that out loud at most work places these days, it would be "fighten' words".....

Paul Erickson wrote:

> >
> > Monty said:
> >
> > Something that I think is being overlooked is that the
> > >people who are using Windows based systems can not only
> > >handle the HTML without any trouble but they can also get

> > >the pictures, drawings and such from a WEB site.
> > >
> > >Those who use UNIX systems that have more primitive mail
> > >programs can't do either!
> >
> > I love it! Thanks for the chuckle. I am forwarding this to all of the
> > unix reflectors that I subscribe to! (Just kidding!) ;-)
> >
> > Best
> >
> Hi Jess, sorry to be so dense, but please explain the joke. I'm one
> of the unix users that Ron refered to, and I miss the humor.
>
> cheers, Paul
> VE7CQK
> email: paul11@wizard.ucs.sfu.ca
> >
> >

Date: Sun, 8 Feb 1998 19:51:54 -0800 (PST)
From: "David D. Meacham" <ddm@datatamers.com>
To: Rick McNelly <72507.235@compuserve.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [3379] Re: Grid Dip Meter?
Message-ID: <Pine.LNX.3.91.980208194354.16718C-1000000@dt1.datatamers.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Rick,

A grid-dip meter is not of much use in working with modern QRP rigs that use toroidal inductors because the nature of that type of inductor is that it has little external magnetic field. In other words, you can't couple to it. The GDO was very useful in the old days of air-wound inductors because they had lots of external magnetic field.

I suggest that you get either a frequency counter or an SWR Analyzer for the next addition to your lab. An RF generator can come later because it will be much more expensive.

72, Dave, W6EMD

Date: Fri, 5 Jan 1996 03:50:18 -0800 (PST)
From: Sam <kc5tja@animeonline.ml.org>
To: qrp-1@Lehigh.EDU
Subject: [3380] Re: New FCC spectral purity standards
Message-ID: <Pine.LNX.3.96.960105034725.11731G-100000@animeonline.ml.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> BTW, this is all very tentative thus far, but it was mentioned in the
> last issue of QST, near the end of the report on WRC97, a couple of
> paragraphs. The bottom line is that spectral purity standards will be
> ratcheted upward by a good deal in the future. The effect will be
> significant at QRP levels, much higher than the 30 dB we currently have
> to live with. No reason to panic yet, or at all, since the new standards
> are achievable....though designers of superhet QRP rigs may need to put
> a lot more work into them to keep the mixing products waaaaay down :-)

Can you be a bit more specific about this? I too have been out of the
loop, and I don't have a single piece of test equipment which I can test
this kind of stuff with... :(

How about direct conversion radios? How will they perform when compared
to superhets?

More info please!

=====

KC5TJA/6		- TEAM DOLPHIN -
QRP-L #1447		Chief Architect and Project Founder
		(web page under construction)

Date: Sun, 8 Feb 1998 21:28:08 -0600
From: launerb@crl.com (William H. Launer)
To: qrp-1@Lehigh.EDU
Subject: [3381] Re: How to send a file?
Message-ID: <v01530501b10426677c3e@[192.0.2.1]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Seems like I'm really in the minority here! First, I use a Macintosh, and second, I use Eudora Lite for mail. I use Netscape for the web; tried the Communicator e-mail function, didn't like it, so went back to Eudora. Have no problems with attached files with Eudora. I tried Bill Gates' Netscape clone (Internet Explorer), and soon erased it from my hard disk!

There I've said it, and I'm glad!

72/73, Bill wb0cld

Bill Launer
St. Charles, MO
launerb@crl.com
wb0cld@wb0cld.ampr.org [44.46.66.25]
qrp-l #279 qrp arci #3551
Grid Square EM48RT

Date: Sun, 8 Feb 1998 21:09:02 -0800
From: "Frank A. West" <ke6vhm@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [3382] Re: Elmer101
Message-ID: <199802090502.VAA21767@sweden.it.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Well guys, I made it back!!!!!!
With a well placed virus cleaned and a new hard drive I am back in business. I haven't seen any more about the Elmer 101 thread. I am very interested in it. I was about to request a position and all heck broke loose with my computer. Lost all the thread in storage and all. Who do I need to talk to? Thanks in advance.

TTFN 73 Frank KE6VHM / AG
Woodcrest, CA
QRP-L #1323 / AK/QRP #269
CW Forever - Have Paddle will Pound
ke6vhm@earthlink.net

Date: Sun, 08 Feb 1998 21:00:35 -0600
From: Lynn Simons <lsimons1@ix.netcom.com>
To: n7kt@earthlink.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [3383] Re: AZ/NM FYBO pics
Message-ID: <34DE7153.42259A5E@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Roger Hightower wrote:

> OK gang...check out:
>
> <http://home.earthlink.net/~n7kt>
>
> to see the pics. Any flames, send 'em to me. Gracias to Jay for over
>
> half the photos.
> --
> 72/73, de Roger, N7KT

Hey Gang,

Great pictures!!!! Makes me jealous to see all the fun you all had.
Even though you had to do it in a lot of cold snow! Sorry I didn't hear
any of you to work you during the FYBO. I sure did look for you though!

73/72,

Lynn, KJ3V
Birmingham, AL

Date: Mon, 09 Feb 1998 00:22:48 -0500
From: Grover and Doris T <hapence@pop.erols.com>
To: qrp-1@Lehigh.EDU
Subject: [3384] HW-9 SWAP - SALE - FIX IS GONE TO A QRPer
Message-ID: <2.2.32.19980209052248.006ce2f0@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

80208 To the forty odd HAMS who kindly responded to my search for home for a no-op HW-9, I want to say Thanks!
Your offers to buy, of help finding a repairer, and of help in repairing the rig were much appreciated.

The HW-9 will have a new, good QRPer home shortly. It will be based in Mesa, AZ where it should soon be able to add a few more states to the QRP WAS goal of a long time (but, not very old) HAM.

Thanks QRP-L HAMS!!.....Grover
72 y Paz ..Grover KQ4AL Occoquan, VA USA 38 41 29N 77 18 45W FM18im
QRP/QSLs WAS = 34 DX= XE VE <hapence@erols.com>
QRO/QSLs WAS = 49(-Hawaii) DXCC = 62 IOTA = 27

Date: Sun, 08 Feb 1998 21:23:56 -0800
From: W7LS <w7ls@blarg.net>
To: ddm@datatamers.com
Cc: qrp-l@Lehigh.EDU
Subject: [3385] Re: Grid Dip Meter?
Message-ID: <34DE92EC.7963@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Just my two cents worth, but you can use a grid dipper for torroids. All of what David said is correct, except that you can make a small, one or two turn loop to couple into the torroid. The Heathkit GDO manual shows it. A couple of turns, then twist the wires together for a couple of inches and then make another 2 turn loop. Couple the GDO to that.

73 de Jim, W7LS

David D. Meacham wrote:

>
> Rick,
> A grid-dip meter is not of much use in working with modern QRP rigs that
> use toroidal inductors because the nature of that type of inductor is
> that it has little external magnetic field. In other words, you can't
> couple to it. The GDO was very useful in the old days of air-wound
> inductors because they had lots of external magnetic field.
>
> I suggest that you get either a frequency counter or an SWR Analyzer for
> the next addition to your lab. An RF generator can come later because
> it will be much more expensive.
> 72, Dave, W6EMD

Date: Sun, 8 Feb 1998 22:05:51 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: Brian Kassel <bkassel@dancris.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [3386] Re: Found: 1 Ea. NA5N FYBO Logbook!
Message-ID: <Pine.SOL.3.91.980208210936.23861J-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 8 Feb 1998, Brian Kassel wrote:

> I found your missing logbook, Paul.
>
> Turns out, it must have fallen out of the bunch of stuff that Roger,
> N7KT, gave me to give to Tim. I found it under the seat of my camper cab.

I'm telling you ... ya drive some 250 miles to help out the ScQRPions and your log book JUST HAPPENS to get lost, passed on to Roger, which gets passed on to Tim but somehow, long after I'm back in NM, suddenly gets found under the seat in Brians (W5VB0) truck, now back in Phoenix? Oh yeah, I'll buy that one!

> there seems to be quite a bit fewer QSO's than the 231 that you had told
> us about at breakfast in Show Low, AZ.
>
> And that JY1 QSO with your old buddy King Hussein, well, err we couldn't
> find that one either.
>
> And, gosh, I don't see many, well actually none, of those G3 QSO's that
> you had told us about as well.

Hey, it was snowing and my fingers were numb. I was gonna fill those QSO's in later!

> Your ScQRPion serial number is in the mail ;)
> You *REALLY* deserve one :o

Oh yeah, butter me up now with a ScQRPion number! Besides, Mike Conner already annointed me with #27 saturday nite. Hey wait a minute ... didn't Mike ride back with you to Pheonix ... probably sitting ON THE VERY SEAT my log book just happened to disappear under? And to think I actually broke bread with you guys only this morning.

Just makes a guy want to file his FYBO report in HTML!

72, Paul NA5N

ScQRPion #27 (and I just noticed how that's *72* backwards! It's all becoming clear to me now. When will it ever end?)

Date: Sun, 8 Feb 1998 20:12:33 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-1@Lehigh.EDU
Subject: [3387] More darn HTML
Message-ID: <Pine.SOL.3.91.980208201017.23861A-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Now this is what a bunch of us are talking about. This might be a useful post, but it gets my DELETE key. If you want your post to be read by at least 10% of us, do it in good old fashioned ASCII text.

<!DOCTYPE HTML PUBLIC "-//W3C//DTD W3 HTML//EN">
<META content=3Dtext/html; charset=3Diso-8859-1 =
http-equiv=3DContent-Type>
<META content=3D'"MSHTML 4.72.2106.6"' name=3DGENERATOR>
</HEAD>
<BODY bgColor=3D#ffffff>
<DIV>Anyone get =
updated news..=20
the delivery of a select few now seems to be kinda nebulous.. early =
Feb..=20
</DIV>
<DIV><FONT color=3D#0000ff face=3D"Times New Roman" =
size=3D4> </DIV>
<DIV><FONT color=3D#0000ff face=3D"Times New Roman" =
size=3D4>72</DIV>
<DIV>Jeff M. =
Gold,=20
-----=_NextPart_000_001F_01BD32DF.58580060--

Date: Sun, 8 Feb 1998 23:06:20 -0500
From: "Heron, George" <G.Heron@dialogic.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Cc: ad716@lafn.org
Subject: [3388] re: Help with Sierra 10M band module
Message-ID: <DF8C9288E968D011A5950060972035B102F21F19@mailnj.dialogic.com>
MIME-Version: 1.0
Content-Type: text/plain

I (and many others) had very similar problems getting the Sierra 10m band module to peak with any meaningful power level.

Calls to Bob Dyer (Wilderness) and chats with Dave Maliniak (N2SMH) repeated the guidance of tuning C36 and C33 verrrrrry carefully to get the peak.

Bob also strongly recommended substituting a J310 for Q5's stock J309, and a ferrite bead on base leg of Q6. Bob also mentioned that compressing the windings of the leftmost coil may help.

Dave indicated going to silver mica caps on the band module may have helped some.

And "piece de resistance" was this weekend with ol' buddy Clark Fishman WA2UNN coming over with an MRF 237 in hand to subsitute for the Q7 final. This is one hot transistor!

All said & done: I'm now up to 2.5W on 10 meters!! And even more on the lower bands. (Now I **must** bring the level control out to the back, as I never operate more than 1W.)

You should follow all the advice given in several postings and archived files (and a QRPP article too, I think) concerning "all Sierra improvement mods". It's a great rig for doing all sorts of stuff like this.

72,
--George Heron, N2APB
Sparta, NJ

=====

[snip]

The completed 10M module doesn't want to adjust past a few hundred milli watts.

[snip]

Date: Mon, 9 Feb 1998 17:04:52 +1000
From: lenriquez@pacific.simoco.com (Luke Enriquez)
To: qrp-1@Lehigh.EDU
Subject: [3389] [3353] KK6MC/5 Preliminary FYBO Results - 15m Contacts
Message-ID: <00008536.4068@pacific.simoco.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Description: cc:Mail note part

G'day There!

>15 M was open from here to the east coast nearly the whole time I
>operated, and I spent a lot of time calling CQ up there, but I could not
>get much activity going. AA1IK had a beautiful signal here, but got few
>replies that I could hear. It is a shame to hear a NH station going
>begging for contacts with a gorgeous signal and no QRM! And he did tell
>us he would be there. W1VT also had a nice signal on 15 M, and it sounded
>like he wasn't getting many replies either. He didn't stay around long
>though and after hearing him run stations on 20 M I am not surprised.
>Given the sunspot count, I would guess that there would have been nice
>openings from the west coast to all of the east coast on 15 M, but I
>didn't hear much, if any activity of that sort. I think that people are
>missing a good QSO/SPC producing band by not operating 15 M. If you don't
>have a QRP rig, use a regular rig with the power turned down. No DigiQRM
>either.

I'm a bit of a 15m fanatic myself, but I am dissapointed at the lack of *KITS* available for 15m. Apart from having a 15m band module for the Sierra, what other kits are around for 15m? What we need is a 38-Special type Superhet for 15m. I'd like to make the project an experiment in surface mount, like the SMiTe, but go further and make a full superhet. You really dont need much power for good DX on 15m. I remember a fantastic contact Adrian Hatherley had when I was over at his place. 1W SSB on his QRP+ from VK3 to OH6! Beat that for value.

The point is, I think 15m has been a neglected band when it comes to kits. Is anyone interested in changing this????????????????

Has anyone started putting together a 15m kit that I dont know about?

Regards and 73's
Luke
VK3EM

Date: Sun, 8 Feb 1998 23:16:03 -0700
From: "Michael Connor" <mikec@primenet.com>
To: <pharden@aoc.nrao.edu>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [3390] Re: Found: 1 Ea. NA5N FYBO Logbook!
Message-ID: <01bd3522\$32a869a0\$0427f5cc@nathan.phx.primenet.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Brian,

I guess Paul really DIDN'T notice when 26 paid for our breakfast this morning and gave us the old nudge, nudge, wink, wink, say no more...:-)

Its OK Paul, we won't tell anyone that you log your contacts in crayon. (oops, didn't mean to say that here)...

Oh, and sorry about breaking the witness protection program rules; we got photos of you anyway...:-)

>Just makes a guy want to file his FYBO report in HTML!

What's HTML stand for...He Took My Log?...:-)

Mike
N07K
AZ ScQRPions
12,13...whatever it takes...

Date: Sun, 08 Feb 1998 23:15:20 -0800
From: mike czuhajewski <wa8mcq@abs.net>
To: QRP forum <qrp-1@Lehigh.EDU>
Cc: Wes Hayward <w7zoi@teleport.com>
Subject: [3391] Tests on Radio shack 100 uH coils
Message-ID: <34DEAD08.65E4@abs.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

A little while back KI6DS asked me to do some tests on those 100 uH chokes that Radio Shack sells. They are about a quarter inch in diameter and about 1 1/3" long and have two layers of wire. This was in conjunction with the redesign of the DeMaw Tuna Tin 2 using modern components; the original (as well as the subsequent Sardine Sender?) used some of these coils with turns removed and he wanted to know how they performed. (The redesign will be using toroids instead but he was curious.)

BTW, the forms are what is believed to be roughly equivalent to type 61 ferrite material, and one thing I found was that they are somewhat fragile. The leads are glued into holes in the ends of the forms, and if they get too much handling they can break out of the form. A little bit of 5 minute epoxy will fix them up if that happens.

Here's the info that I already sent to Doug. If I made errors in some of my assumptions or techniques, or if anyone wants to add anything about the technical topics discussed, I'd be more than glad to hear about it.

I've been over this a little bit and touched up some of it, and it may still be a bit rough in places, but I want to get it on the streets before it gets lost in the shuffle on my computer, so here it is, as-is.

I bought two and checked them out on an HP 8753C network analyzer. (That's a piece of equipment that falls into the class of Dead Serious Test Equipment That RF Engineers Sell Their Grandmothers to Get Access To.) One was left stock, and the other was measured stock and then with various amounts of wire peeled off. I first stripped off the top layer, leaving just the 27 turns (or so) of the first layer; then I checked it again at 20 and 15 turns. The bottom line is that the stock choke really shouldn't be used on any ham band higher than 1.8 MHz since its self resonant frequency is about 2.6 MHz, and the 15 turn version makes a dandy choke at least as far as 14 MHz. (I had the analyzer set for a sweep from 0.3 MHz--lowest setting--to 50 MHz, a good practical range to check this coil over. The instrument itself will go as high as 6 GHz.) The use of two layers wound directly and linearly over each other is a killer. (Remember the big RF chokes in the old days, the three pie type, and how the wire was wound in a criss-cross fashion? That's done to reduce distributed capacitance and it works very well indeed, as some later tests showed, detailed somewhere below.)

Originally I typed in this paragraph, before actually trying to do it: "If you still want me to wind 100 turns of #28 on the form as you requested, let me know and I'll be glad to do it. I'm presuming that was with the intent of possibly using it as a choke at RF, and it's pretty obvious that it would make a poor one, with a self resonant frequency well below any possible ham band. On the other hand, it might be good for the broadcast band or LF, but I can pretty much guarantee that it would be nowhere near enough inductance to be useful in any audio filtering application; the permeability of the core is far too low for that. If you want me to do it, let me know."

After actually trying it, the results are that it doesn't turn out that much different from the stock coil. I wound 70 turns on the core, about all it would take in a single layer. N2CX told me the spool of wire he gave me was #28, but according to my dial calipers and the wire charts in the ARRL handbook it's more like #27 :-). Unlike the stock coil, I wound those 70 turns in a single layer. The results are detailed below, but the bottom line is that it's pretty similar to the inductance of the stock coil but with vastly lower distributed capacitance.

The stock, unmodified RF choke, with two layers of wire, as measured on the Boonton 260A has an "apparent inductance" (Lapp) of 114 uH at 790 KHz (one of the standard frequencies at which the inductance can be read directly from a calibrated dial). The Q was 37 at that frequency. Corrected for the distributed capacitance (Cd) which was later measured at 43 pF for the stock coil, that is reduced to an even 100 uH. (At 790 KHz it resonated with 360 pF, but the actual resonating capacitance was 403 pF when Cd is factored in.)

The highest frequency it could be measured at was 1.865 MHz, which is where it resonated with the tuning cap in the 260A set to the minimum of 30 pF. That gave an apparent inductance of 242 uH, corrected to 99.7 uH when Cd was factored in.

I'm no expert in metrology so I won't attempt to interpret or explain the readings I got on the network analyzer at various frequencies, except to say that the indicated inductance changes quite a bit with frequency. For example, at 300 KHz it shows 81 uH, 92 uH at 1 MHz, 100 uH at 1.2 MHz, 120 uH at 1.5 MHz, 216 uH at 2 MHz and 400 uH at 2.25. The important thing is the self resonant frequency, which is something that should not be approached when using the coil, and that is a disappointingly low 2.5 or 2.6 MHz. Above that, the coil appears capacitive, of varying impedance, up to about 12.2 MHz when it once again goes over to inductive but at a vastly lower inductance (single digit microhenries), back to capacitive between 19.2 and 43.9 MHz, and finishing up the sweep to the top frequency of 50 MHz as inductive.

With the top layer of wire stripped off and about 27 turns remaining in a single layer, the indicated inductance on the 8753C was around 22 uH at 3.5 MHz, rising to 25 uH at 7 MHz, and 32 uH at 10.1 MHz. As inductors get closer to their self resonant frequency, the indicated inductance starts ramping upward. As I said, I can't really explain or interpret that until I talk with someone at work who uses the analyzer a lot, to find the practical significance of it. The important thing is that with 27 turns the self resonant frequency was up to a respectable 17 MHz.

I would suspect that what's going on is that it's seeing the entire network, consisting of a coil AND its distributed capacitance--which is a rather significant 43 pF, much higher than typical toroids I've measured for HF--and since the capacitance is fairly significant the net inductance varies a lot with frequency. On the Q meter you also get misleading results if you don't realize what's going on with the distributed capacitance and compensate for it. For instance, it looked like 114 uH, higher than it was "supposed" to be, but actually turns out to be the 100 uH it should, but with 43 pF capacitance along for the ride. The trouble is that the 43 pF is internal to the component and can't be disassociated from it; that's when the engineering gets to be "fun" :-)

I pulled off more wire to get 20 turns, and the 8753C gave about 12 uH at 3.7 MHz, 13.6 at 7 MHz, 15.6 at 10.1. The self resonant frequency was 21.8 MHz. At 3.7 MHz it was showing a net reactance of 290 ohms, and 600 at 7 MHz, both of which easily meet the rule of thumb that says that an RF choke should have at least 4 times the impedance of the circuit (presuming 50 ohms).

Finally, down to 15 turns. (As I pulled off turns, I kept them close spaced.) The self resonant frequency was a respectable 26.8 MHz. It held at 8 or 9 uH through 7 MHz, 10 at 10.1, 11.6 at 14. That 8.5 uH on 80 meters provided about 197 ohms, which is right about at the limit for the rule of thumb, but on 40M it was almost 400 ohms (9.0 uH).

I measured the second stock coil and it was also self resonant at about 2.6 MHz.

At home I measured the Cd on the remaining stock coil and the one with 15 turns, using the "approximate method" given in the Boonton manual (which they say gives results accurate to 2 pF). I didn't bother doing the more exacting and complicated method. As I said earlier, the Cd of the stock coil, which had two layers wound directly over each other, was about 43 pF. "Real" RF chokes from the old days have criss-crossed wire to keep the Cd lower. (If I can find one somewhere

I'll measure it and see how low the Cd is.) The 15 turn coil, with a straight, single layer winding showed 3.3 pF. On the other hand, every single layer toroid for HF that I've ever measured has been "down in the noise", usually getting readings of 1 or 2 pF, readings which really can't be trusted anyhow since the accuracy of the method is +/- 2 pF. As far as I'm concerned, for all practical purposes, "HF toroids" can be considered to have no Cd.

On to the bare form wound with 70 turns of wire, now that all of that distributed capacitance talk is over. It measured 5/3 pF, or 1.7 pF, hugely better than the double layer, stock coil of approximately the same inductance. At 790 KHz it resonated with 343 pF, or about 118 uH. Since Cd is not even 2 pF, the apparent and true inductance are essentially the same. As a cross check of the procedures, since I did this on a later day, I went back and measured the stock coil again, and got 41 pF, essentially the same as the other day.

Why did the 70 turns have less Cd than the 15 turns? The wire size was a smaller diameter, essentially resulting in smaller plates in the "capacitor". Although there were more turns, the wire size was smaller by a sufficient margin that the Cd was less.

I won't be able to measure the self resonant frequency of the form with 70 turns on it for a while but would expect it to be reasonably high. Calculations using the approximate values of 100 uH true inductance and 43 pF Cd for the stock coil comes out to a hair over 2.4 MHz, in the ball park of the measured value on the HP8753C. Due to the resolution of the analyzer and touchiness of the dials, the figures I pulled from it for self resonant frequency have a bit of fudge factor built in anyhow. For the 70 turn coil, factoring in the 1.7 pF of Cd makes it about 117.7 uH, resonated with its own 1.7 pF for an estimated self resonant frequency of about 11.3 MHz. Not extraordinarily high, but hey, it's a 118 uH coil after all! And hugely better than the 2 1/2 MHz for the stock Radio Shack coil. [Update: I put it on the network analyzer and it is self resonant at about 8.3 MHz.]

All of this may well be a lot more than you wanted to know, but I enjoyed doing it; always good to play around with the basics :-). The bottom line as stated above remains the same, that for a good RF choke at HF I'd recommend at the very least pulling off that top layer of wire, and I highly recommend chopping about half of the remaining turns from that bottom layer.

Appendix--I later scrounged up a couple of old, criss-cross wound coils. One was a single pie RF choke on a nonmagnetic rod and the other was wound on a cardboard coil form with a slug. The core of the choke was 1/4", the winding was about 0.32" long, 0.420" outer

diameter and approx. 0.090" in depth, with wire size of #36 or #38. At 646 KHz it measured 1214 uH, 8 pF of Cd, and a corrected inductance of 1046 uH. A huge amount of wire, but very small wire and criss-cross wound, and thus a respectably low Cd, much lower than the Radio Shack coil. Later testing on the 8753C showed self resonance at approximately 1.7 MHz.

The coil on the form with a slug gave an apparent L of 3564 uH at 377 KHz, corrected to 3126 uH after factoring in the Cd of 7 pF. The size was similar; the core is about 0.28" dia, 0.274" long, about 0.487" outer diameter and 0.110" deep. The wire on this one is also #36. Like the other, this one had low Cd due to the cross-cross winding technique. In both cases it's hard to tell how many layers are on them, but they both appear to have something like 6 to 8 layers. This one self resonates at about 2.3 MHz.

--

73 and Queue Our Pea de WA8MCQ wa8mcq@abs.net

Date: Mon, 9 Feb 1998 06:55:33 +0000
From: Leon Heller <leon@lfheller.demon.co.uk>
To: ddm@datatamers.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [3392] Re: Grid Dip Meter?
Message-ID: <y5fUpFAlhq30EwVG@lfheller.demon.co.uk>
MIME-Version: 1.0

In message <Pine.LNX.3.91.980208194354.16718C-100000@dt1.datatamers.com>, "David D. Meacham" <ddm@datatamers.com> writes

>Rick,
>A grid-dip meter is not of much use in working with modern QRP rigs that
>use toroidal inductors because the nature of that type of inductor is
>that it has little external magnetic field. In other words, you can't
>couple to it. The GDO was very useful in the old days of air-wound
>inductors because they had lots of external magnetic field.

You can use a GDO with toroidal inductors. Simply put a couple of turns of wire through it, join the ends of the wire and make an external loop of a couple of turns and couple that to the GDO.

73, Leon

--

Leon Heller: leon@lfheller.demon.co.uk <http://www.lfheller.demon.co.uk>
Amateur Radio Callsign G1HSM Tel: +44 (0) 118 947 1424
See <http://www.lfheller.demon.co.uk/dds.htm> for details of my AD9850
DDS system. See " /diy_dsp.htm for a simple DIY DSP ADSP-2104 system.

Date: Mon, 09 Feb 1998 02:14:23 PST
From: "Ray Lowe" <wd5dhk@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [3393] Re: Grid Dip Meter?
Message-ID: <19980209101423.506.qmail@hotmail.com>
Content-Type: text/plain

The GDO is very handy as a cheap Rf source to test out
that receiver project.

If cost is a factor, the SWR analyzer can be a better
buy. It can be used as a frequency counter, Rf source, and
as a dip meter(with either a homebrew coil or MFJ
adapter) as well as its use with antenna tuning.

Just my two cents worth.

72/73

Ray Lowe
WD5DHK
Lancaster,Tx (near Dallas)

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Mon, 9 Feb 1998 01:03:53 -0800
From: "ALAN KAUL" <alan.kaul@worldnet.att.net>
To: <qrp-1@Lehigh.EDU>
Subject: [3394] New QRP Web Page
Message-ID: <19980209090443.AAA1236@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

A new qrp-web page should anyone need more url's to help spend time on the
computer! <http://home.att.net/~alan.kaul/qrp.html>

Alan Kaul, W6RCL
LaCanada-Flintridge, CA
alan.kaul@worldnet.att.net
w6rcl@amsat.org

Date: Mon, 9 Feb 1998 07:13:50 -0400
From: Greg Weinfurtner <gweinfurt1@ohiou.edu>
To: qrp-l@Lehigh.EDU
Subject: [3395] FYB0 results
Message-ID: <v03007800b10492934d3b@[132.235.202.32]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gang,

Had a very nice Saturday afternoon with the southeast Ohio RATS.
WD8RIF(Eric), W8MHV(Drew) and AA8EB(Mike) had a great set up at the
Kiwana's building/shelter at the local fairground. They had surrounded the
open shelter with plastic to keep out the wind. Spend a couple of hours
here.

Watched Mike and Eric string up a 40 meter half square during that
time too. Hand launched via a huge metal nut, it took a few tries!

Went home (My mom and Dad unexpectedly stopped in from out-of-town)
and slipped down to the shack and worked a few others on 40 including and
Mike and Eric.

Stations worked:

NF3I
W8HP
KG8W
AA8EB

Worked another station but don't remember it right now...

Mike's half-square was a great performer, his signal back at my
house was very strong compared with other antenna's that the RATS group set
up.

FUN was had by all! Thanks guys and gals! 72

de NS80

Date: Mon, 09 Feb 1998 08:30:37 -0500
From: Richard Powell <ripowell@mpna.com>
To: qrp-l@Lehigh.EDU
Subject: [3396] QB6JBM FYBO Initial Results (unverified)
Message-ID: <1.5.4.32.19980209133037.006ac580@smtp.mpna.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Location: Winton Woods State Park, OH.
Total Time at Location: 42 hrs
Rigs: MFJ 9020, Ten Tec Argonaut
Ant: 20M dipole, 80M Diagonal-pole
Power: 67.5ah Bubba Battery
Wx: 8" packed snow, outside temp 28-45F, Inside temp: 40 - 82F (solar heated)
QSO's:48
Feet: Still thawing out
Hands: Feeling is back (ouch)
Fun level: High!!!
Full report: When I get it all sorted out!
73
/rick
WB6JBM/8

Richard Powell WB6JBM TENTEN - 13044
Director of Network Services, JDR Consulting Services, LTD.
ripowell@mpna.com <http://www.mpna.com/ripowell>
ripowell@jdrconsulting.com <http://www.jdrconsulting.com>

Date: Mon, 9 Feb 98 08:33:18 EST
From: hodgins@rtp.semi.harris.com (Bob Hodgins 919- 405-3620)
To: ae4ic@nr.infi.net, qrp-l@Lehigh.EDU
Cc: hodgins@rtp.semi.harris.com
Subject: [3397] SMiTe interim report
Message-ID: <9802091333.AA02797@pollux.draco.com>

Bob et al,

Received the envelope January 31. Built it in about two and a half hours of relaxed effort over three days. What a great way to package the parts! Just about impossible to make a mistake. I would have liked to have seen the assembly line that put the kit package together. Certainly a very labor intensive but effective presentation -- thanks, volunteers! [Components are individually taped to an enlarged parts layout.] In my opinion, it was an easier assembly job in surface mount than it would be in through-hole. Now if I could only get those pesky, miniscule components from sticking to fingers, tools, soldering iron, etc.

Does it work? Not sure yet!

Current draw, Receive: 8.8mA at 9V
11.1mA at 12V
13mA at 15V

Transmit, 50 ohm intellectually challenged load:
12.6mA at 9V = 113mW input
17.1mA at 12V = 205mW input
21.7mA at 15V = 326mW input

Transmit frequency range: 3.6868MHz to 3.6878MHz (978Hz range), not quite down to official 3.6864 KL frequency. Power out: well it wiggled the meter on my MFJ tuner 30W range. Looked like about 300mW (with 205mW input -- great efficiency, but I think I'll take that with a grain of salt.)

Receive, with a tuned antenna: I could hear some high pitched CW, maybe 1500Hz, but the 0Hz to 1000Hz range was dominated by gawd awful buzzing that wiped out every thing else. Sounded like a model-T vibrating ignition coil. You remember those, Bob. I tried running it through my MFJ DSP, but it just rolled over and played dead. Receiver is fairly quiet with antenna shorted.

Yet to do: get out the oscilloscope and look for oscillations -- maybe audio/mechanical feedback? Mount the board to something rigid. Mount in a metal box. (Waiting for my SM Tick keyer board before I mount the pair in an Altoids tin.) Try it when 80M is in good shape. Measure real power out.

to be continued ...

Anybody else out there getting similar results?

Date: Mon, 9 Feb 1998 06:45:17 -0600

From: ab5uacw@juno.com (Clifton W Sikes)
To: qrp-1@Lehigh.EDU
Subject: [3398] FYBO Report
Message-ID: <19980209.064519.6646.1.ab5uacw@juno.com>

Well, that was a ton of fun! Thanks Joe, and the sQRPions, for a fantastic event.

This was the first trial for my GM 20 and Okie special vertical(single band wire supported by the famous black fishing pole). The antenna worked out much better than expected, even got Bruce in Ak. and Ron in Nv, with his mighty 200mw. The temp was 27F when I set up, but by the start time it had warmed up to 37F. Not bad at all! High for the day was 57F, with sun, sun, sun.

I was on the banks of my pond, and had the company of a horse, donkey, and three ducks. They didn't try to talk all day, so they were good company. Around noon, Bill N5LU, came out to check on me and take me to town for lunch. He still can't quite figure us all out ;-) That made for a nice break, and time to remove some clothes.

I didn't set any records, but definitely had loads of fun. I made 35 contacts, with 19 S/P/C. Not too bad for the first run with this set up. This will also be my site for the border operation in April, the border of dry land and pond water, ha!

Thanks all, and hope you had as much fun as I did.

72,

Clifton Sikes AB5UA QRP-L #478
Earlsboro, Ok.
ab5uacw@juno.com

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 09 Feb 1998 09:14:53 -0500
From: "Buck, Preston D" <BuckPD@corning.com>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [3399] FYBO: N0GLM
Message-ID: <6B137F61081DD0118DF600805FEAC5C5C8EC82@SILVER.CORNING.COM>

Content-Return: allowed
Mime-Version: 1.0
Content-Type: text/plain

Greeting All,

I discovered that the "B" in FYBO can be something other than Backside!

I headed to Pinnacle State Park for my FYBO attempt. It is at 550m above sea level and is pretty uninhabited in the winter after deer season. The day was sunny, not a cloud in the sky, and 42 degrees. I knew I was going to have fun, when my first toss of the line weight went over the limb that I chose 50' up. The other end was tied to the backstop of the baseball diamond. I was on the air at noon local time, about an hour late. Met a couple of ice fisherman and a pair of grouse hunters since they were curious about what I was doing. I operated from the tailgate of the truck till the sun began to set. Then I moved into the truck to stay a bit warmer. The temp dropped from 42 degrees to 30 degrees during an hour long QSO. Final temperature was 22 degrees inside the truck. It was 18 degrees out where the antenna was. I could have opened up the shell and got that x6 multiplier, hindsight is a bummer. I broke down and left about an hour early (2200 local) because I was tired and had a headache from not enough water and was making stupid mistakes and because the rules said to have fun and I wasn't anymore.

I had only 7 contacts, several on 80m, and 6 new states for me. Only one "official" FYBO contact with another FYBO'er. And I think I got the temp wrong (like I said I was tired)

Tentative score (all my sheets are at home)
QSOs x SPC x Field x Alt Pwr x Temp
7 x 6 x 4 x 2 x 5 = 1680

73,
Preston, n0g1m, Southern NY State

Date: Mon, 09 Feb 1998 06:31:55 -0800
From: Jack Parker <Pparker@greatbasin.net>
To: qrp-1@Lehigh.EDU
Subject: [3400] Re: PIC's DSP, and other stuff...
Message-ID: <3.0.1.32.19980209063155.00694ed8@mail.greatbasin.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 06:22 PM 2/8/98 -0800, you wrote:

>
>
>Bill Kelsey - N8ET - Kanga US wrote:
>
>> Laura - I think you made an excellent point about what we need to
>> discuss on this list - and I agree 100%
>>
>> Tell us more about the PIC chips, how to use -'em, etc.
>
>I second the motion!Lyn, W4WDN
>
>
And I second the second. Would like some info on PIC sources, as well. I'd
love to play with the digital VFO in the SPRAT reprints, but can I afford
the chips (which do include a PIC device)?

72/73,

Jack Parker, W7PW

"...play the sunset..."
Richard Dreyfuss--Mr. Holland's Opus

Date: Mon, 9 Feb 98 08:58:42 CST
From: QLF%mimi@magic.itg.ti.com
To: qrp-1@Lehigh.EDU
Subject: [3401] FYBO REPORT
Message-ID: <9802091458.AA15084@itg.ti.com>

From: Brad Bradfield QLF

Subj: FYBO REPORT

Good morning QRPer Dudes and Dudettes - - -

Had a great time in the FYBO Saturday. Only got to be on the air till
2145Z due to another committment, but made 38 Q's. Only had 20 and 40
meters this time out. Checked 40 once early in the afternoon, and finding
it dead, went back to 20 where I stayed. The most memorable Q was one guy
(don't have the log in front of me, sorry) running 5 (count 'em, 5) mW.
Took a couple of repeats to get all of his report through the QRM, but he
kept at it and we got a good one in the book.

I'm looking forward to the Flight of the Bumblebees again in July. Hope to

be a BB again this year.

72's es 73's,
Brad, WB0CGH

qlf@msg.ti.com

qrp-l #377
ARS # 72
AK/QRP # 350
SSN # - - - - Aw, never mind

Date: Mon, 09 Feb 1998 09:05:58 -0600
From: Chuck Carpenter <w5usj@webwide.net>
To: qrp-l@Lehigh.EDU
Subject: [3402] Sun Equip Corp Pwr Mtr.
Message-ID: <3.0.1.32.19980209090558.00698df0@mail.webwide.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

All,

Any experience with Sun Equipment Corp.?

They have a mW RF Power meter advertised in this months "Electronics Now" mag.

1.8 to 500 MHz, 20 mW, 200 mW, 2 W, 50 ohms, +/- 10% FS, SWR <1.15.

\$219.00

72/73 -- Chuck, W5USJ, EM22cv
Rains County, Eagle Capitol of Texas
ARCI # 5422, QRP-L # 1306, FISTS # 3984

Date: Mon, 09 Feb 1998 10:51:18 EST
From: nq2rp@juno.com (B/BAMS Club Station)
To: qrp-l@Lehigh.EDU
Subject: [3403] SMiTe #90 & #91
Message-ID: <19980209.105002.7967.0.nq2rp@juno.com>

I got the second kit together last nite whilst listening to the

Knightlite net. I called on SMiTe #90, but no replies. Guess it was not a 200 mW night...

The second kit went together in less than an hour, and came right up at just under 300 mW. One bug, a 220 uH inductor and a 100 uH inductor were swapped on the sheet. Thank whomever for my magnifier as I never would have read the labels without them!

Speaking of labels, is there any sort of ID on the chip caps? I didn't see any writing on them, even with a 10X loupe. Am I missing something?

I spoke with the Chairman of one of the local clubs that's thinking of a project down the road. They has specifically eliminated ANY SMC's as being "Too hard to work with at home..." I am taking the SMiTe's over tonite to show him just how easy it can actually be.

Lotsa fun, and now onto a full-sized one! Hey! Maybe I can make a battery tube-based Pixie! How many 9-volt batteries and I fit in a project box? Enough for the +90V line???

72/73, Keith, WB2VUO at the keys at B/BAMS
NQ2RP - QRP-L # 1294, Byron/Bergen AMateurS Club Station
Listen for our 10 Mtr Milliwatting Beacon: 125 mW @ 28.287 MHz
"Our night light runs more power than our Rig!!!"

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Date: Mon, 9 Feb 1998 11:56:16 -0500 (EST)
From: "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [3404] Correction - MD MW FYBO score - 75k!
Message-ID: <Pine.LNX.3.95.980209115423.29795D-100000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

69 Qs x 34 SPC x 4 field x 4 temp x 2 battery - 75,072 points,
multi-single, and BOY was it ever fun!

The thaw has been completed, although Chris' truck is still a mess.

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
* 6m 82 grids on 8w * DXCC WAS WAC * QRP-L #147 * QRP ARCI #9054 *
* <http://w3eax.umd.edu/~ham> * ARRL Life Member /Laurel ARC/UMARA *
*** 301-549-1022 h 301-982-1015 w *** 35 wpm HF mobile CW Neon ***

Date: Mon, 9 Feb 1998 11:08:26 -0500
From: Patrick Franzis <franzis@esun19.gdc.com>
To: QRP Digest <qrp-l@Lehigh.EDU>
Subject: [3405] I'm just not contest-savvy
Message-ID: <Pine.SOL.3.96.980209110408.24207F-100000@esun245>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Folks,

Hmm,

Many contests this weekend and a lot of DX openings
I heard a lot of CQ FOC, what was this? I didn't find a
reference anywhere.

Forgive me if this was asked, I'm a digester.

Thanks, -Patrick N10CJ

Date: Mon, 9 Feb 1998 08:16:04 -0800 (PST)
From: aa7hq@aa7hq.seanet.com (edward c guilford)
To: qrp-l@Lehigh.EDU
Subject: [3406] peter anderson & PICS. etc
Message-ID: <199802091616.IAA15554@mx.seanet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

there was a request for peter anderson's web site.

well here it is, although that's what search engines are for!

<http://www.access.digex.net/~pha/>

peter anderson and his students are doing VERY interesting things, and they offer some kits which will give a good start to those interested in PICS. etc. be sure to look for the logic analyzer kit; you'll be in business almost instantly.

scott edwards' counterfeit stamps are also easy to use. i want to program one to blink two leds, one red, the other green, in sequence. i would put this behind a picture of a lighthouse and wear it in my lapel for valentine's day!

73d de ed

Date: Mon, 9 Feb 1998 12:13:36 -0500 (EST)
From: "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
To: Patrick Franzis <franzis@esun19.gdc.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [3407] FOC
Message-ID: <Pine.LNX.3.95.980209121225.30201A-100000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

First class CW Operators Club

an organization with 500 of the "world's best CW ops."

Membership is limited to exactly 500.

No new inductees unless someone is kicked out (which I suspect rarely happens) or dies (which unfortunately does happen).

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
* 6m 82 grids on 8w * DXCC WAS WAC * QRP-L #147 * QRP ARCI #9054 *
* <http://w3eax.umd.edu/~ham> * ARRL Life Member /Laurel ARC/UMARA *
*** 301-549-1022 h 301-982-1015 w *** 35 wpm HF mobile CW Neon ***

On Mon, 9 Feb 1998, Patrick Franzis wrote:

>

> Hi Folks,
>
>
> Hmm,
>
> Many contests this weekend and a lot of DX openings
> I heard a lot of CQ FOC, what was this? I didn't find a
> reference anywhere.
>
> Forgive me if this was asked, I'm a digester.
>
>
> Thanks, -Patrick N10CJ
>
>
>
>
>
>

Date: Mon, 09 Feb 1998 10:18:03 -0600
From: Chuck Carpenter <w5usj@webwide.net>
To: qrp-l@Lehigh.EDU
Subject: [3408] QRP Tuner Results
Message-ID: <3.0.1.32.19980209101803.0069863c@mail.webwide.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

All,

Recently I asked the list about QRP antenna tuners.

The unanimous choice of those who replied is the ZM-2 ATU kit from EMTECH.

There were a few others mentioned but no more than once each.

72/73 -- Chuck, W5USJ, EM22cv
Rains County, Eagle Capitol of Texas
ARCI # 5422, QRP-L # 1306, FISTS # 3984

Date: Mon, 9 Feb 1998 09:33:02 -0700

From: ji3m@maxwell.com (James R. Duffey)
To: qrp-1@Lehigh.EDU
Cc: gregoire@endor.com
Subject: [3409] A Confession and Use 15 M more!
Message-ID: <v0213050cb104dd1c84b8@[192.31.66.158]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Ernie - I don't know if you read my earlier post, but I echoed what you said about the dearth of activity on 15 M. You had a fine, fine, super fine signal in here the whole time you were on. I had expected you to be overwhelmed by CA stations, but I heard few come back to you. I had expected to hear more east coast stations on 15M, but I heard few. I think that W1VT had similar problems, nice signal here, but few takers to his CQ. Many of the stations I worked on 15M were in some FISTS activity.

"Funniest contact was a nameless ham that just got a 229, rst from me. Then his signal came booming up to a 559 in a flash. He said he just connected his antenna! :-) ;-)"

He shall be nameless no longer, that was me. Nuff said. Actually the antenna was connected, but I had not tuned it for 15M. You were the first station I heard on 15M, and I was too excited to hear the band open and to a NH station at that. When I got the 229 I looked at the SWR meter, pegged at infinity, and the power out, near 0, and realized it needed tuning. My antenna is sub optimum for 15 M, but it does work out. Maybe a beam for next year.

Anyway 15M is an ideal QRP band when open, good signals from far away, lots of room to spread out, no digi QRM, no foreign broadcast stations, and low QRN.

By the way it was also nice to hook up with you on 40M late. You had a nice signal, but nowhere near the boomer you were on 15M.

I hope Dave is overwhelmed with orders for the GM-15. - Duffey KK6MC/5

James R Duffey KK6MC/5 DM65
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Mon, 09 Feb 1998 09:00:57 -0700

From: Bruce Grubbs <bog@flagstaff.az.us>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [3410] FYBO fun
Message-ID: <3.0.5.32.19980209090057.00956a80@mail.infomagic.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello all,
Scott, K7DHF, and I operated FYBO from a site along Beaver Creek a couple of miles north of Camp Verde, Arizona, at an elevation of about 3500 ft. We're from the 7,000 ft. snow country (Flagstaff, AZ), so we thought we'd do the opposite from the Pinetop gang and head downhill to warmer country for the test.

The sun was out and temps ran in the 50's most of the day. With the huge sycamores to hang the wire from, and the bubbling creek nearby, what more could we ask?

Using a Sierra and a WM-2 wattmeter, we ran 900mw to a 270 ft end-fed wire. Out of 45 contacts, 22 were on 40m, 15 on 20m, and 8 on 15m. 15 seemed quiet at first but a dozen or so CQ's starting getting responses. Scott did most of the operating and I did the logging, but my rusty cw is starting to come back- I could copy most of the contacts myself. I use a Hewlett-Packard HP100 with N6TR version 4.05 for logging- a QRPer's computer that works well and doesn't drain the station battery.

Thanks to everyone who dug our little whistle out of the noise, especially after the big 'test started at 00Z. QRPers do know how to _operate_.

72

Bruce, N7CEE
packet: n7cee@n7cee.az.noam.us
email: bog@flagstaff.az.us

Date: Mon, 09 Feb 1998 11:57:47
From: Steven Weber <kdljv@moose.ncia.net>
To: qrp-1@Lehigh.EDU
Subject: [3411] Re: PIC's DSP, and other stuff...
Message-ID: <3.0.3.16.19980209115747.2b57bbfc@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>>> Laura - I think you made an excellent point about what we need to
>>> discuss on this list - and I agree 100%
>>>
>>> Tell us more about the PIC chips, how to use -'em, etc.

If you want to learn the PIC, I suggest you get a copy of thier data book and the embeded control handbook. Digi-Key has both of these at reasonable prices (\$9.95 each, I believe, both books are 2" thick!)

You can also go to the Microchip web site (www.microchip.com) and down load the specific info found in the books and get the development software for writing and simulating programs. (windows or dos)

Then you just need to buy a programmer, which you can get for about \$75.00 JDR Microdevices is one source for these and the PIC chips. I belive there are also some "how to" books out there.

I think the best way to learn these devices is to pick a simple task to do, say light or flash an LED when you push a button. Once you figure out how to write a simple program like that, you can start to get into more complicated things. Keyer programs are also good for a start. A fairly simple, well defined task to write a program for.

Personally, the only thing I don't like about the PIC's is there is no carry bit for adding and subtracting and no mutliply or divide instructions. This makes complex math difficult to do. Multiple persison math, ie, 16, 24 or 32 bit operations get a bit complicated.

I'm spoiled by the 8051 type cpu, where math is a lot easier to do. Since I know the 8051 pretty well and all set up to use it, I'll stick to that. Someday I'll have to sit down and learn the PIC. Got all the tools, just have to learn them.

73,
Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Mon, 09 Feb 1998 10:02:59 +0000
From: Roger Hightower <n7kt@earthlink.net>
To: franzis@esun19.gdc.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [3412] Re: I'm just not contest-savvy
Message-ID: <34DED453.9DB2D607@earthlink.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

FOC is a CW group called First-class Operators Club. Membership is by invitation only, and they run high speed CW.

--

72/73, de Roger, N7KT

Date: Mon, 9 Feb 98 07:16:02 HST
From: mike@krypton.nmr.Hawaii.Edu (Mike W. Burger)
To: qrp-l@Lehigh.EDU
Subject: [3413] FYBO, found one at least
Message-ID: <9802091716.AA02393@krypton.nmr.Hawaii.Edu>

I checked out the bands Saturday, starting in the predawn, mostly on 14 Mhz. I did make one contact with a FYBO station and pass a report. Heard lots of other signals, but could not raise them, even the strong ones, did hear several others calling CQ FYBO.

Calls heard near 14.060 included KF6DCU, KC7DQV, AA6QV, W3PP (very strong right on 14.060), VE5VX/5 on his farm, K06QZ (CQ FISTS), a whopping signal from W9PQ0, and a weak KL7JAF.

My one FYBO exchange was:

KX7L 14.057 18:17Z 559 WA, Charlie, 5W, 54 degrees

He was 339 here and it was 66 degrees on my side. It was 64 at 0600 HST, but had warmed up by then. I was using the Kenwood 570D turned down to 5 watts and a pair of Hustler mobile whips.

Local hams said 20 was extremely hot on Sunday and 17 was wide open and filled with signals. Made no sense based on flux, time of year etc., just was.

Next weekend, camping, rainforest, bigger antennas, better location.

AH7R - Mike Burger, University of Hawaii at Manoa, Dept. of Chemistry
HI-QRP #28 - QRP-L #1053 - FISTS #3225 - BL11ch - Honolulu County
<http://www.chem.hawaii.edu/uham>

Date: Mon, 09 Feb 1998 09:21:29 -0800

From: "Gene A. Williamson" <genewill@ordata.com>
To: qrp-1@Lehigh.EDU
Subject: [3414] Locating slant-front project boxes
Message-ID: <3.0.1.32.19980209092129.006de2e4@ordata.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I'm building a small radio-control box, to include external ALC for my ICOMs, and would like one with a slanting top. The Archer #270-282 I was after (6.31W x 4.88D x 1.41H at the rear, .78 at the front) is sold out at All Electronics; neither RadShack, Jameco, nor the local electronics emporium have anything like it.

Anyone know a source for "Archer" brand project boxes? Or slanted boxes in general?

TU! 73 Gene K7dBV <genewill@ordata.com>

Date: Mon, 9 Feb 1998 10:31:09 -0700 (MST)
From: flydnq7x@primenet.com (Floyd Smithberg)
To: qrp-1@Lehigh.EDU, ku7y@sage.dri.edu
Subject: [3415] NQ7RP FYBO & SPRINT
Message-ID: <199802091731.KAA01152@smtp04.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Sure missed all the Pinetop fun but managed to pass out a few points to those who were able to get out there and FYBO...
Checked 10M & 15M but heard few sigs so stayed with 40& 20 til 4 pmst when I had to QRT
to prepare our dinner and get ready for NA Sprint @ 5 pmst.

Condx/Category here: S0, Home, 70F, 5W, Ant:3el 20M/ 2 vert 40M, TR Log

Band	QSO	SPC	MULT
40M	50		
20M	16		

SCORE 66 x 23 x 0 = 1518

NA Sprint: For me this was a disaster! Did fairly well in the SSB Sprint with 57Qs but the CW was so fast I couldn't get with it. Could copy calls, names & qth but not all consistantly in one exchange and didn't want to hold up the other ops. Might have been somewhat burned out from FYBO?? Or need more time (months/years?)to get my speed up :-). Checked speeds with MRP37 and they

were running 35-45wpm... But at least I could copy better than a year ago so will keep using my MFJ 418 and maybe try again some day.
Made 4 Qs in first 1.5 hours and wasn't having any fun so called it a day.

20CW	08/02/98	01:19	1	AA4S	70	RON	Nc	Nc	1
20CW	08/02/98	01:21	2	WA3HAE	54	KEN	Pa	Pa	1
20CW	08/02/98	01:32	3	ND8L	26	RAY	Oh	Oh	1
20CW	08/02/98	01:35	4	K3CR	44	JIM	Pa		1

Sorry Ron to let the Warriors down, hope the rest did much better.
73 Floyd NQ7X Phoenix ScQRPion DM33uq QRP-L 343
ARRL AMSAT ARCI G-QRP NORCAL DX WRKD HF=324 SAT=101 QRP=108

Date: Tue, 10 Feb 1998 02:35:05 +0900 (JST)
From: Jonathan Haynes <kc7fys@sa2.so-net.or.jp>
To: kc7fys@sa2.so-net.or.jp
Message-ID: <l03130301b1056cd86ddb@[210.132.226.66]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

test

Date: Mon, 09 Feb 1998 09:56:15 -0800
From: Bill Todd <bill@willapabay.org>
To: nwq-l@scn.org
Cc: qrp-l@Lehigh.EDU
Subject: [3417] Feb "NWQ" on line & next Meeting
Message-ID: <1.5.4.32.19980209175615.0070ed7c@willapabay.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello group(s) -

The February 1998 "NWQ" Newsletter is up on my web page, and is ready for your reading pleasure.

Go to our NW QRP Club Web Page, and click on the "Graphics Quality" link. That should take you to my web site. If there is a problem with the link, you can connect direct at:: <http://www.willapabay.org/~bill>

Next Meeting:

The next NW QRP Club meeting will be this Saturday at 10 AM at the ever-popular Andy's Diner on 4th avenue in Seattle (come in through the rear door).

Be sure to bring yourself, a friend, your current kit or home brew project, and don't forget the Roloids (hi).

CUL, Bill-N7MFB

Date: Mon, 09 Feb 1998 10:03:07 -0800
From: Vic Rosenthal <rakefet@rakefet.com>
To: franzis@esun19.gdc.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [3418] Re: I'm just not contest-savvy
Message-ID: <34DF44DB.CB33FF12@rakefet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Patrick Franzis wrote:

> Many contests this weekend and a lot of DX openings
> I heard a lot of CQ FOC, what was this? I didn't find a
> reference anywhere.

FOC stands for First Class CW Operators Club. It's a British-based CW organization dating back to 1938. For information, see

<http://members.aol.com/focuk/index.htm>

Vic K2VCO
Fresno CA

Date: Mon, 9 Feb 1998 13:12:55 -0500

From: Patrick Franzis <franzis@esun19.gdc.com>
To: Vic Rosenthal <rakefet@rakefet.com>
Cc: franzis@esun19.gdc.com, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [3419] Re: I'm just not contest-savvy
Message-ID: <Pine.SOL.3.96.980209131203.24207L-100000@esun245>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Vic,

Thanks for the info on the FOC contest.

73, Patrick N10CJ

On Mon, 9 Feb 1998, Vic Rosenthal wrote:

> Patrick Franzis wrote:

>

> > Many contests this weekend and a lot of DX openings

> > I heard a lot of CQ FOC, what was this? I didn't find a

> > reference anywhere.

>

> FOC stands for First Class CW Operators Club. It's a British-based CW organization

> dating back to 1938. For information, see

>

> <http://members.aol.com/focuk/index.htm>

>

> Vic K2VCO

> Fresno CA

>

--

Patrick Franzis
General Datacomm Inc.
Engineering, Tech Center
P.O. Box 1299
Middlebury, Connecticut. 06762

Phone: (203) 758-1811 Ext. 7338
FAX: (203) 755-0896
Email: franzis@gdc.com

Date: Mon, 9 Feb 1998 11:13:41 -0700
From: gsurrency@juno.com (Gary L Surrency)
To: qrp-1@Lehigh.EDU
Subject: [3420] Re: Tests on Radio shack 100 uH coils (extremely long)
Message-ID: <19980209.111342.11974.0.gsurrency@juno.com>

Say, ah, Mike.....

Ya really need to get a life there, buddy.....

Just kidding! ;-)

But it was an interesting piece of analysis on chokes and RF stuff.....

I'll never look at a choke the same way again! ;-)

72, etc.

Gary Surrency AB7MY
S&S TAC-1(40&80m) ARK30 38S OHR100 w/KC-2 HW-9 TS-570D
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

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Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 9 Feb 1998 13:29:28 EST
From: GERALDCUND@aol.com
To: genewill@ordata.com
Cc: qrp-1@Lehigh.EDU
Subject: [3421] Re: Locating slant-front project boxes
Message-ID: <b0d71771.34df4b0b@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Try Tech America. They carry Pac Tec and Bud enclosures. I believe you can order a catalog online.

1 (800) 877-0072

www.techam.com

Gerald,KE4LIA

Date: Mon, 9 Feb 1998 14:26:29 -0500 (EST)
From: "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [3422] CW speed, explanation from NF3I
Message-ID: <Pine.LNX.3.95.980209141845.31307A-1000000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

We were using the INTERNAL keyer on Chris' IC-735. If you have ever owned one of these beautiful rigs, you'll know that it uses a stupid SLIDE pot for the speed control.

A movement of this pot of even 1/32" can change the speed from 20 to 40 wpm.

It was at this point that I realized that it was just easier to keep the keyer setting constant, and leave lon g e r gaps between letters.

My apologies for any inconvenience. It REALLY was a blast.

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
* 6m 82 grids on 8w * DXCC WAS WAC * QRP-L #147 * QRP ARCI #9054 *
* <http://w3eax.umd.edu/~ham> * ARRL Life Member /Laurel ARC/UMARA *
*** 301-549-1022 h 301-982-1015 w *** 35 wpm HF mobile CW Neon ***

Date: Mon, 9 Feb 1998 14:29:00 -0500 (EST)
From: "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [3423] FOC
Message-ID: <Pine.LNX.3.95.980209142633.31420A-1000000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Apparently, the First class CW Operators Club members can get kicked out for non-payment of dues, and have to remain active.

Someone also noted that there are currently FEWER than 500 members, although membership is limited to that (from what I was told in the past, which being hearsay could just as easily be incorrect).

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
* 6m 82 grids on 8w * DXCC WAS WAC * QRP-L #147 * QRP ARCI #9054 *
* <http://w3eax.umd.edu/~ham> * ARRL Life Member /Laurel ARC/UMARA *
*** 301-549-1022 h 301-982-1015 w *** 35 wpm HF mobile CW Neon ***

Date: Mon, 9 Feb 1998 10:53:57 -0800 (PST)
From: "S. Lee" <slee@u.washington.edu>
To: qrp-l@Lehigh.EDU
Subject: [3424] Re: Locating slant-front project boxes
Message-ID: <Pine.A41.3.95b.980209104844.182722A-100000@homer36.u.washington.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

There's a place located in Kent, Washington, known as:

Supertronix	Phone: 425-251-8484
18650 68th So.	These folks have a large variety of the
Kent, WA 98032	TenTec project boxes including slant top.

Enjoy! de AB7HI, Stephen Lee, Federal Way, WA
slee@u.washington.edu

Date: Mon, 09 Feb 1998 10:56:42 -0800
From: Charlie Panek <charlier@lsid.hp.com>
To: qrp-l@Lehigh.EDU
Cc: mike@krypton.nmr.Hawaii.Edu
Subject: [3425] Re: FYBO, found one at least
Message-ID: <34DF516A.37E0@lsid.hp.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mike W. Burger (mike@krypton.nmr.Hawaii.Edu) AH7R wrote:

>
> My one FYBO exchange was:
>
> KX7L 14.057 18:17Z 559 WA, Charlie, 5W, 54 degrees
>
> He was 339 here and it was 66 degrees on my side. It was 64 at
> 0600 HST, but had warmed up by then. I was using the Kenwood 570D
> turned down to 5 watts and a pair of Hustler mobile whips.

Well, geez, I guess possibly having the only HI QSO in the test
in my log is some kind of distinction. Mike had a pretty good sig here,
and I was waiting for a pileup on him after we finished, but...
no takers!

Still I found the concept of freezing one's b___ off in Hawaii
amusing at the time. I suppose one could head for the top of one of the
volcanoes on the big island, and be pretty cold though...

Of course, here in Seattle it was sunny and unseasonably warm on
Saturday. So I missed that 40-50F multiplier.. Never thought I'd
wish for cold, rainy weather!

72/73,

Charlie
KX7L

--

Charlie Panek	Hewlett Packard Company
mailto:charlier@lsid.hp.com	Lake Stevens Division
	Everett, Washington

Date: Mon, 9 Feb 1998 13:19:18 -0600
From: "C.D. Rakes" <cdrakes@ipa.net>
To: <qrp-1@Lehigh.EDU>
Subject: [3426] Kits built
Message-ID: <199802091912.NAA20322@thunder.ipa.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Just completed OHR 100A on 40M, TAC-1 on 80M, and Ten-Tec's 1330. And they
work. All three are great kits. Now to find some operating time....
PS: No missing parts on any of the kits.
Thanks, KI5AZ

Date: Mon, 09 Feb 1998 11:37:44 -0800
From: Laura Halliday <ve7ldh@direct.ca>
To: qrp-1@Lehigh.EDU
Subject: [3427] PICs and stuff, part 2 (long)
Message-ID: <34DF5B08.1F1E7C64@direct.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thank you all for such positive email! A bit of rumination on the subject suggests that three parts should just about do it:

- Part 1: Introduction (already posted)
- Part 2: Hardware and software (this posting)
- Part 3: An example design study (later)

Without further ado...

For PICs to do anything, you must program them. As I mentioned earlier, this consists of describing the task you want to do in excruciating detail, and teaching it to the microcontroller.

Describing the task starts with a description of the problem, which you then refine until you have enough detail to submit the results to software development tools. We'll look at an example in Part 3.

In this area, software development means preparing programs on a separate computer, and then using special hardware to feed the results to a PIC.

You can develop software at the machine code level, manipulating instructions directly. This is no fun, and nobody (even us hackers) does it unless they absolutely have to.

This is some machine code, ready to download:

```
:0C0000000030660062006300860A0328DE  
:000000001FF
```

Ugh, huh? No, I didn't write this - thanks to Charles Manning, Electronics Australia.

The next step is still based on machine code, but allows

you to refer to instructions symbolically - assembly language. The garbage above looks like this in assembly language:

```
        LIST    P=16C84
        MOVLW   0
        TRIS    6
        OPTION
LOOP    SLEEP
        INCF    6,F
        GOTO    LOOP
        END
```

A bit better, and starting to look like something humans could use. The program that translates assembly language into machine language is called an assembler, and for PICs, Microchip distribute their old DOS-based one (MPASM) for free. They (and others) will happily sell you fancy ones.

The farthest removed from the hardware is programming in a high level language, like C. In this case you express what you want to do in a machine-independent way, and a translator program (a compiler) translates these statements into machine code for the processor of interest.

High level code looks like this (you can blame me for this, since it's an excerpt from a program of mine):

```
if(thisPixel < theImage -> blackLimit)
    thisPixel = 0;
else
{
    thisPixel -= theImage -> blackLimit;
    thisPixel *= 256;
    thisPixel /= (theImage -> whiteLimit - theImage -> blackLimit);
    if(thisPixel > 255) thisPixel = 255;
}
```

Note that there is nothing here that says what kind of computer this program (written in C) is intended for. This is an important characteristic of high level language programming.

When playing with microcontrollers, the assemblers tend to be pretty simple, and don't usually need much of a computer to use them. This is the perfect use for that old XT you've been using as a doorstop. I run MPASM happily on an IBM PS/2-25 I bought brand new in 1987.

Once you've turned your program into machine code, you need to feed it to a PIC. This requires special hardware, called a programmer. Microchip, needless to say, will sell you a programmer. You can also build your own - check back numbers of electronic hobbyist magazines (e.g. Elektor). One PIC, the 16C84 (and the newer 16F84), has a novel programming interface which lends itself to ridiculously simple programmers. Microchip describe such a programmer in their App Note 589. Others have played with the design; try snooping around from David Tait's page (<http://www.man.ac.uk/~mbhstdj/piclinks.html>), and also Microchip's web page (<http://www.microchip.com>). A company called Parallax make some interesting PIC development stuff. They're at <http://www.parallaxinc.com>. More on Parallax later...

PIC processors come in several flavours. The 16[CF]84 have EEPROM program memory, that you can erase and reprogram them easily. They also have separate EEPROM data memory so that the processor can record and remember things for itself. Other PICs are one time programmable - you burn a program into them, and that's it. For development and debugging, they come in (expensive) erasable variants that you cook under ultraviolet to erase them before trying again. If you're a beginner, save yourself a lot of hassle and money and use the 16C84 and 16F84.

BTW: test your homebrew programmer carefully before plugging it into anything - programming requires anti-social voltages that can fry things if you're not careful.

Parallax have created a very interesting alternative, which has been widely cloned - the Basic Stamp. It uses a PIC microcontroller which executes a partially compiled form of Basic. You prepare your programs on a PC, download them to memory on the Stamp (with an interface cable you can make yourself), and it executes your program. They're more expensive than a PIC, but so much easier to use that they are well worth investigating. I've made frequency counters, DDS controllers and LCD displays with Basic Stamps. A friend uses them for robotics. Check Parallax's web site, and the hobbyist magazines for Stamp clones...

Where to get stuff? I buy most of my PICs from Digi-Key. For other countries, check your local magazines for suppliers. Or ask Microchip and/or Parallax. The local electronics store I mentioned in connection with 16C84s was Active (\$CDN9.99 for a 16C84 is a very good price!).

I can't teach you to program these things here. There are books, magazines, and lots of sample code floating around. Start small,

and have fun. The only limit is your imagination...

Next: Part 3, a design study. The application I'm thinking of is an intelligent TR switch, but if others have suggestions, do please let me know!

We now return you to our regularly scheduled QRP-L.

...laura

Date: Mon, 9 Feb 1998 13:10:06 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-l@Lehigh.EDU, cqclist@lists.csn.net
Subject: [3428] Test messages
Message-ID: <199802092109.0AA27767@edison.chisp.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Just curious-- why do people send test messages? If you do, don't take this personally! It really is just a matter of more or less idle curiosity.

I look at it this way-- if I don't have anything to say, then it doesn't matter whether I'm getting in or not. It's not an emergency communications system that I need to check out periodically to make sure it will be working when I need it. If I do have something to say then I'll know pretty quick whether it made the list.

Maybe it's like "ker-chunking " the repeaters.

73

Marshall Emm
N1FN/VK5FN
n1fn@mtechnologies.com
Milestone Technologies
Software, kits, tools...
<http://www.mtechnologies.com>
(303)752-3382

--

Date: Mon, 9 Feb 1998 02:07:56 -0600
From: "Bruce Barley" <lbbbarley@feist.com>

To: <qrp-1@Lehigh.EDU>
Subject: [3429] One Way Skip - DX -- FRUSTRATION!
Message-ID: <199802092009.0AA08200@wichita.fn.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Well, gang -

I was doing a bit of late nite (0700z - 0830z) operating down at the bottom end (~7025 - ~7035) of the General assignment on 40m last nite (QTH Wichita,KS).

As daylite started breaking over Europe, I began picking up a variety of CQ DX calls from several stations: F5JYS - G3BYR - DL8WN and either I0MIM or I0ZM , couldn't quite tell which.. Now granted, I'm operating at a bit of a disadvantage - Century/21 to a home brew ground mounted vertical. I try to keep the lil' Ten-Tec throttled back to 5w or so. None of these guys were exactly bustin' down the doors, but they all had a respectable 2-1-9 to 3-2-9 sig albeit with a bit of QSB/QRN/QRM thrown in just for seasoning. Generally my rules of operating state that if I can hear them, then surely they will be able to hear me? Sounds reasonable, at least to this ol' dummy! My log book reflects at least some success to this line of thought.

So... I gives a shout back across the pond. Nothin' doin'. After 10 or 15 minutes of this, I say what the heck.. most of the qrp-1 guys are probably already pushin' Z's. They won't be offended, I'm sure. So I cranks the TenTec up to Redline. By now, I'm probably striking the ether with all of at least 30 to 35 watts or so. Another 10 to 15 minutes of slamming the paddles... Nada! Zippo! Zilch! I might as well open the back door and shout for all the results I'm getting. Frustration is peaking at 40 over 9!

Now... I pull out my ultimate weapon! I lite off my Drake T-4/R-4 twins. Tune for max smoke and again... I might as well open the back door and just holler. Nada! Zippo! Zilch! You'd think this ether stuff only flows one way! Pooley! With that, I pulled the big switch and went to catch a few Z's of my own.

In all fairness, I did hear a few 1's and 2's make QSO's with some of those stations.. Now. Either the ether only flows one way, or else I need to get a pair of stacked 3 el's at about 75' and point them toward the North East. Ah, well. Figure how much college tuition for my daughter that would soak up, and just go take up kite flying! Kites! Now there's a thought... Hmmm.

Some nasty rumors heard recently... some strange objects seldom seen in

recent years are about to return.. something called SUNSPOTS. And what's more they are supposed to bring with them something called PROPAGATION! What a concept. With the index seemingly stuck in the low to mid 80's as of late... I'll believe it when I see them! Man! This El Nino is just getting blamed for everything!

Best DX to all. See you on the bottom of 40m. Maybe soon on 15m. Picked up a full size 3-el 15 meter beam lately, and now just have to convince my wife that it will make an attractive 20' x 25' aluminum object d'art on top of our garage. She just can't understand why I can't put it up on top of my ground mounted vertical at the back of the lot. 25 years with this woman, and ... Oh, well. I still don't understand the nuances of knit 1 perl 2 myself.

Bruce Barley KB0PZD qrp-l #69
lbbarley@feist.com

Date: Mon, 9 Feb 1998 15:19:36 -0500 (EST)
From: "Paul R. Valko" <prvalko@oakland.edu>
To: Marshall Emm <mgemm@mtechnologies.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [3430] We need a break... Re: Test messages
Message-ID: <Pine.OSF.3.95.980209151251.20601B-100000@vela.acs.oakland.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 9 Feb 1998, Marshall Emm wisely wrote:

> Just curious-- why do people send test messages?

I also believe it is a form of "kurchunking..." How difficult could it be for someone to add a line like, "I'm new to QRP-L and anxious to join the fun. I use a XZY rig and an ABC antenna."??? Man... at least you'd get a warm welcome.

Maybe I should change my email filter to bounce anything with "test message" in the header (or "do not read"). I already bounce blank subject lines as well as a few other choice subjects :-)

73! =paul= W8KC
Collector of Ten*Tecs and other fine plastics

<http://www.acs.oakland.edu/~prvalko>

ObQRP: Temps in the high forties up here in Michigan dashed any hopes this
OP had to try FYBO :-) Thanks El~Nino!!!

Date: Mon, 09 Feb 1998 16:41:39 -0500
From: Richard Powell <ripowell@mpna.com>
To: qrp-1@Lehigh.EDU
Subject: [3431] WB6JBM Final FYBO Report (Long)
Message-ID: <1.5.4.32.19980209214139.0068cacc@smtp.mpna.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

FYBO98 Summary

Location: Winton Woods State Park, OH.
Rigs: MFJ 9020, TenTec Argonaut
Ant: 20M Dipole, 30ft up, 80M ZigZagpole 15ft up
Highest Pwr: 2W (80M)
Lowest Pwr: 0.8W (20M)
Highest Temp: 82F
Lowest Temp: 40F
Environment: Tent, on 8in packed snow, Bubba Box, PETAQ-Mobile
Total Time on site: 42hrs
Power Source: 12v 67.5ah Deep Cycle
Total AH used: 24.7 (37%)
Ops: Rick (WB6JBM) & Matt (logging)
Mults: AK AZ BC CA CO
 CT FL ID IL MA
 MI MO NC NH NJ
 NM OK PA TX UT
 VA WA
Soapbox: Tried for almost 10 minutes but couldn't get
 W3FAF to send PWR/TEMP! Gotta get on 40M!

URL: <http://www.mpna.com/ripowell/fybo98.html>

46(qso) * 22(mult) * 4(field) * 2(alt power) * 3(temp) = 24,288pts

(I'm not going to claim QRPp, my rcvd signal reports were too high)

WB6JBM/8 FYBO 1998 Multi Op Field RST/OH/RICK/PWR/TEMP

#	Date	Time	F	call	RXrst/spc/name/pwr/temp	TXrst/pwr/temp
1	2/7/98	1602	20M	AF5Z	569/TX/BOB/4W/44F	559/0.8W/52F

2	2/7/98	1613	20M	WA20CG/7	569/WA/???/5W/65F	559/0.8W/52F
3	2/7/98	1621	20M	N5JI	449/TX/DICK/5W/70F	559/0.8W/52F
4	2/7/98	1624	20M	WA6NAE	559/CA/DWIGHT/0.9W/50F	559/0.8W/52F
5	2/7/98	1630	20M	KA5DJI	559/TX/ART/5W/70F	559/0.8W/52F
6	2/7/98	1646	20M	WA1QVM	579/MA/JOEL/4W/62F	579/0.8W/62F
7	2/7/98	1651	20M	K0SU	559/CO/RICK/5W/72F	559/0.8W/63F
8	2/7/98	1654	20M	AC6KW	559/CA/JEFF/5W/60F	579/0.8W/63F
9	2/7/98	1704	20M	WB0CGH	559/TX/BRAD/1W/58F	579/0.8W/61F
10	2/7/98	1713	20M	N7XM	579/CO/JOSH/4W/70F	579/0.8W/66F
11	2/7/98	1721	20M	K10J	559/TX/OJ/5W/70F	559/0.8W/66F
12	2/7/98	1732	20M	KK6MC/5	559/NM/JIM/5W/66F	559/0.8W/69F
13	2/7/98	1751	20M	KD0C	599/CO/JERRY/5W/75F	579/0.8W/75F
14	2/7/98	1809	20M	K07X	559/UT/ALAN/5W/37F	559/0.8W/75F
15	2/7/98	1813	20M	W1VT	559/CT/ZACK/4W/70F	559/0.8W/75F
16	2/7/98	1822	20M	AA1IK	559/NH/ERNIE/5W/70F	599/0.8W/77F
17	2/7/98	1826	20M	KX7L	579/WA/CHARLIE/5W/54F	599/0.8W/80F
18	2/7/98	1845	20M	KL7JAF	449/AK/BRUCE/5W/70F	559/0.8W/77F
19	2/7/98	1858	20M	AD6AY	539/CA/DAVE/2W/52F	559/0.8W/80F
20	2/7/98	1916	20M	W60QX	559/CA/PHIL/4W/48F	559/0.8W/80F
21	2/7/98	1930	20M	W3CD	439/CA/BOB/5W/66F	549/0.8W/80F
22	2/7/98	1935	20M	WK8G	559/NJ/IM/1W/70F	449/0.8W/80F
23	2/7/98	1944	20M	W1WQM	559/NH/PAUL/80W/65F	559/0.8W/80F
24	2/7/98	1948	20M	KB0SZF	549/CO/STEVE/5W/55F	559/0.8W/82F
25	2/7/98	1952	20M	KA5T	449/TX/LARRY/2W/70F	549/0.8W/82F
26	2/7/98	1955	20M	K06KA	449/CA/ROB/3W/63F	449/0.8W/80F
27	2/7/98	1957	20M	AB5UA	579/OK/CLIF/2W/50F	599/0.8W/80F
28	2/7/98	2001	20M	N5LU	599/OK/BILL/2W/55F	599/0.8W/80F
29	2/7/98	2010	20M	KE4ZUN	599/FL/JOHN/100W/55F	599/0.8W/80F
30	2/7/98	2045	20M	KI0II	599/CO/RON/5W/42F	599/0.8W/60F
31	2/7/98	2048	20M	N0QT	559/CO/JAN/5W/43F	599/0.8W/64F
32	2/7/98	2053	20M	NQ7RP	559/AZ/FLOYD/5W/70F	599/0.8W/66F
33	2/7/98	2118	20M	K50I/7	549/AZ/KENT/5W/56F	339/0.8W/69F
34	2/7/98	2157	20M	AB7TK	559/ID/RANDY/5W/68F	599/0.8W/60F
35	2/7/98	2203	20M	N7XJ	559/UT/BOB/5W/60F	559/0.8W/60F
36	2/7/98	2209	20M	WB7AIV	559/WA/BOB/90W/60F	449/0.8W/60F
37	2/7/98	2211	20M	W7XNL	569/ID/JACK/5W/60F	579/0.8W/60F
38	2/7/98	2224	20M	N7VE	559/AZ/DAN/1W/70F	449/0.8W/70F
39	2/7/98	2341	20M	K1EQA	559/CO/JAY/5W/68F	539/0.8W/44F
40	2/7/98	2345	20M	KD6VIO	559/CA/BOB/2W/20C	559/0.8W/44F
41	2/7/98	2353	20M	VE7CQK	559/BC/PAUL/5W/60F	559/0.8W/44F
42	2/7/98	0012	80M	KQ2P	459/NC/GARY/100W/75F	599/2W/44F
43	2/7/98	0043	80M	K0LVW	449/MO/LARRY/5W/64F	559/2W/40F
44	2/7/98	0101	80M	K8ZAA	579/MI/RANDY/5W/72F	559/2W/40F
45	2/7/98	0105	80M	KB9IVA	319/IL/KEVIN/5W/34F	559/2W/41F
46	2/7/98	0115	80M	N4ROA	559/VA/DAN/5W/72F	579/2W/42F
47	2/7/98	0122	80M	W3FAF	549/MN/JOHN/??/??	559/2W/40F
48	2/7/98	0133	80M	K3WWP	579/PA/JOHN/5W/70F	599/2W/40F

Actual materials consumed:

- 3 large cans of Sterno
- 2 big cans of MRE (Never Again bring Spaghetti-O's with Meatballs)
- 4 pots of coffee
- 2.5 gal water
- 2 light sticks (could have done without these, ambient light due to overcast was high)
- 2.5lbs sunflower seeds (great idea!! but bad gas!!!)
- 4 rags (clean dishes 3 times + 1 coffee spill)
- 6 pkgs instant oatmeal (great idea,,, 6 pkgs/morning)
- 2 power bar's (found in Bubba Box, leftover from BUBBA97)
- 2 big trash bags (could have used 1, but 1st one tore)
- 1 plastic grocery bag (trash)
- 1 1gal ziplock bag (trash)
- 2 propane bottles (heat)

Lessons Learned:

- Making camp took from 1830L to 1945L - not bad!
- Smaller Coax!!!!
- J-Pole is too heavy, replace with ground plane
- 20M Dipole is too big & heavy - build smaller
- Bubba Box needs wheels
- Need a switch on the pole light
- Use pre-packaged coffee filter thingy's, grounds don't work.
- Bring Coffee Creamer
- Smaller Coax!!!!
- Reduce size of cables for High I 12V light - 12Ga too big
- Need some method of power cable connectors one top of the battery box
- Get more of those really expensive tent stakes, they are nice!
- Install a second hanging line in the tent, 90 degrees off the first one.
- Bring some clothespins
- Smaller Coax!!!!
- Plan for either 2M or Cellular ops, not both. (note: local 2M is annoying)
- More than 2 antenna weights. Both stuck in tree, glad I had the golf balls!
- 80M is much easier with a smaller radio
- 80M is much easier when I have half an idea as to what freq i'm on
- Smaller Coax!!!!
- Propane heater worked GREAT!, but throttled down too early saturday night.
- Start heater later, and run it at a higher setting.
- Gotta get a real antenna tuner/SWR meter combo
- Reducing the power on the 9020 was great! didn't make a bit of difference!
- Never take the Argonaut into the field again. too delicate.
- 80M antenna took only 20 min to tune
- Must use something other than RG-8/U!
- Set up Bubba Box in it's normal position. NOT under the window.
- Need more operating time on 80M if I'm going to be effective there.
- Some kind of chair in tent will help a LOT
- Mummy bags worked good

Need to bring extra socks, one pair per day at least (P.U.!)
Use computer logging as long as plenty of power is available.
Why did I stop????? got frustrated with Argonaut, that's why.
Really big tarp is just too big, unless it's actively precipitating.
Breaking camp took from 0930L to 1015L - Much better!

QSO Rates:

1600-1700 20M = 8
1700-1800 20M = 5
1800-1900 20M = 6
1900-2000 20M = 8
2000-2100 20M = 5
2100-2200 20M = 2
2200-2300 20M = 4
2300-2400 20M = 3
0000-0100 80M = 2
0100-0200 80M = 5

Power used

Inflate air mattress. 7min (2/6/98) = 1AH
12V Low I lighting from 1943L to 2300L (2/6/98) = 1.1AH
9020 from 1015L to 1730L. (2/7/98) = 3.2AH
Argonaut from 1800L to 2135L (2/7/98) = 1.3AH
12V Low I lighting from 1825L to 2231L (2/7/98) = 1.3AH
12V High I lighting from 1830L to 2230L (2/7/98) = 5.6AH
9020 from 1837L to 1900L. (2/7/98) = 0.2AH
TV from 2137L to 2345L (2/7/98) = 1.3AH
TV from 0810L to 0904L (2/8/98) = 0.6AH
Deflate air mattress 4 min (2/8/98) = 0.6AH
Cell Phone from 2153L (2/6/98) to 0942L (2/8/98) = 6.5AH
Self-Discharge. = 2 days X 1AH/day = 2AH
Total = 24.7AH = 36.5% of total capacity.

73

/rick

Richard Powell WB6JBM TENTEN - 13044
Director of Network Services, JDR Consulting Services, LTD.
ripowell@mpna.com <http://www.mpna.com/ripowell>
ripowell@jdrconsulting.com <http://www.jdrconsulting.com>

Date: Mon, 9 Feb 1998 15:33:47 EST5EDT
From: "Joseph street 1635" <joseph.street@comdev.ca>
To: qrp-1@Lehigh.EDU

Subject: [3432] FMB0 freaked my brain out
Message-ID: <9A710136AF@mercury.camb.comdev.ca>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

I tried to tune in to the fun on Saturday. I know a couple of you came back to my CQ's . Sorry but being new to amateur radio my CW skills were not up to the task! I'm the guy who tunes away from the pileups looking for that lone clear slow signal.... I guess my first contest experience was a bust. But I'm steadily improving and one day, I'll be freezing it off with the best of you.
Sounds like most people had a lot of fun.
73's to all frn VE3UXE

Date: Mon, 09 Feb 1998 14:41:35 -0600
From: Ed Manuel <n5em@flash.net>
To: qrp-1@Lehigh.EDU
Subject: [3433] Slant-front project boxes
Message-ID: <3.0.5.32.19980209144135.008a8b70@pop.flash.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At the risk of seeming unfeeling, get some double sided PC board, a ruler, some drawing paper and a 50 watt or better element for your soldering iron. You can now make any project box that your creative juices can conjure up. Slope front, slope back, shadow front, flat ones, skinny ones, etc. (Round ones might be challenging - for that you need a REAL tuna tin).

A little work with a sharp file and a good pair of tin snips and your box will be so good looking, you'll be embarrassed to be caught buying a pre-fab one. And, you'll always have the perfect enclosure.

I guess the only thing better than making your own boxes is recycling those infamous modem boxes.

Go for it. Just take pictures and let us see, too.

Ed, N5EM
Houston, Texas
n5em@amsat.org

Ed Manuel, N5EM

Houston, Texas
n5em@amsat.org
n5em@flash.net

Date: Mon, 9 Feb 1998 14:22:06 -0700 (MST)
From: flydnq7x@primenet.com (Floyd Smithberg)
To: qrp-l@Lehigh.EDU
Subject: [3434] NQ7RP FYB0
Message-ID: <199802092122.0AA08377@smtp04.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Had a misscount of NQ7RP SPCs: 66 QSOs X 30 SPC = 1980 Score (No multipliers)

Note, my goal was NOT Score...just pass out as many Qs as possible from the
ScQRPion

Home station. Especially pleased to work:

W0RSP	Ade	
W1VT	Zack	
WB6LRV	Peggy	(only YL)
AA0SM	Tony	950mW
VE3ELA	Ken	950mW
KU7Y	Ron	200mW
WB6JBM/8	Rich	800mW
W1WQM	Paul	700mW

Also several 1,2,3,4 Watters and from snowy Pinetop, AZ: N7KT, AB7TT, W6VB0
and NQ7K.

Tnx to all who participated and hope you will all be back for more fun in next
years FYB0.

73 Floyd NQ7X Phoenix ScQRPion DM33uq QRP-L 343
ARRL AMSAT ARCI G-QRP NORCAL DX WRKD HF=324 SAT=101 QRP=108

Date: Mon, 09 Feb 1998 14:28:36 -0700
From: Andy Fox <foxes@theriver.com>
To: joseph.street@comdev.ca
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [3435] Re: FMBO freaked my brain out
Message-ID: <34DF7504.11644B12@theriver.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Joseph,

You're not alone. I set up my rig on the back porch, threw a 1/2 wavelength of wire over the roof, and hooked up my rig/tuner/watt meter/battery/solar panel. Started tuning around 7040, found a couple of strong signals that were slow enough for me to copy and waited for a CQ. Got Jay, WA5WHN/7 at 2325Z. My wife came home and we chatted a bit. Heard another strong signal calling CQ when she went inside, so I held my breath and answered. Got Mike, NQ7K at 0005Z. I was too nervous to say anything besides the exchange, but I was more comfortable since this was the second QSO of the day.

So, what's my point? I guess we all start someplace. This was the first time I made two contacts in the same day. Now I'm fired up to get my code speed up. It's the single biggest impediment (for me) to making more contacts. I'm glad I participated in my (very) small way. It was a lot of fun. Next contest I will make more contacts, and my code speed will be higher.

Thanks for the contacts, Mike and Jay

72 and 73 de Andy
from Benson, AZ, about 50 miles SE of Tucson

--

Andy Fox, KK7HV
mailto:foxes@theriver.com
<http://personal.riverusers.com/~foxes/>

Date: Mon, 9 Feb 1998 16:40:05 -0500 (EST)
From: William McFadden <wmcfadde@oucsace.cs.ohiou.edu>
To: qrp-1@Lehigh.EDU (qrp-1)
Subject: [3436] SE Ohio RAT FYBO Report (preliminary)
Message-ID: <199802092140.QAA12523@oucsace.cs.ohiou.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Southeast Ohio Radio Adventure Team FYBO Report (Preliminary)

Three members of the SE Ohio Radio Adventure Team (AA8EB, WD8RIF, and AA8EB) and a guest (NS80) operated the daylight portion of FYB0 from the Kiwanis shelter at the Athens County Fairgrounds. This is a preliminary report; full details with photos will (eventually) make their way to the WD8RIF web page, the URL of which is in the signature.

Mike (AA8EB) and Eric (WD8RIF) wrapped the Kiwanis shelter with plastic, as they did last year. This year wind was not a problem at all. The outside temperature at set-up was in the high thirties, by the end of the day had risen to the high forties or low fifties. The plastic-wrapped shelter, however, thanks solely to the plastic and the sun, warmed to a measured 68 degrees by 4pm. It was quite cozy within...

Mike, Eric, and Drew (W8MHV) each set up their own stations. Eric set up his QRP+ and a W3EDP antenna and had his solar panel floating across the battery. Mike set up his Scout, and with help installed a 20m delta loop and 40m half-square. Drew set up his QRP++ and tried to operate 15m with a 10m/15m (RS-12) fan dipole, and he took his turns with the 20m delta and 40m half-square. The W3EDP, 20m delta, and 10m/15m fan dipole were provided by Eric. The 40m half-square was provided by Mike.

Eric worked twenty-nine stations on 20m and 40m, even with the 20dB attenuator turned on while on 40m. Mike worked about twenty stations on 20m and 40m. Drew worked a handful of stations on 15m and more stations on 20m and 40m.

Lunch (canned beef stew) and banana-nut bread (baked by Eric's wife, Vickie) were provided by Eric. Eric opened the stew cans and heated them (all by himself--don't say he can't cook!) on a Sterno stove.

The event was a great deal of fun, and in this scribe's humble opinion, a keeper. Good work Arizona ScQRPions!

Eric

--

W. Eric McFadden WD8RIF Athens OH
wd8rif@qsl.net
<http://www.qsl.net/wd8rif>

Date: Mon, 9 Feb 1998 16:01:38 -0600
From: Kevin Muenzler <wb5rue@stic.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [3437] RE: Slant-front project boxes

Message-ID: <01BD3574.01E4EB20@muenzlerk.uthscsa.edu>

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

On n5em@flash.net, Ed Manuel[SMTP:n5em@flash.net] wrote:

> At the risk of seeming unfeeling, get some double sided PC board, a ruler,
> some drawing paper and a 50 watt or better element for your soldering iron.
> You can now make any project box that your creative juices can conjure up.
> Slope front, slope back, shadow front, flat ones, skinny ones, etc. (Round
> ones might be challenging - for that you need a REAL tuna tin).
>
> A little work with a sharp file and a good pair of tin snips and your box
> will be so good looking, you'll be embarrassed to be caught buying a pre-fab
> one. And, you'll always have the perfect enclosure.
>
> I guess the only thing better than making your own boxes is recycling those
> infamous modem boxes.
>
> Go for it. Just take pictures and let us see, too.
>
> Ed, N5EM
> Houston, Texas
> n5em@amsat.org
>

That's an EXCELLENT idea! Been there, done that. I've built numerous small boxes using single or double sided boards. They work great for building small enclosures for things like oscillators and pre-amps inside rigs. They may not always look beautiful but as long as they work. With time you'll be making really good-looking boxes in whatever shape you want.

72/73

Kevin, WB5RUE

Date: Mon, 9 Feb 1998 14:03:15 -0800 (PST)

From: Monte Stark <ku7y@sage.dri.edu>

To: Floyd Smithberg <flydnq7x@primenet.com>

Cc: qrp-1@Lehigh.EDU

Subject: [3438] Re: NQ7RP FYBO & SPRINT

Message-ID: <Pine.SUN.3.90.980209140140.22364B-1000000@vortex>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 9 Feb 1998, Floyd Smithberg wrote:

> Sorry Ron to let the Warriors down, hope the rest did much better.

No let down at all Floyd. You still added points to our effort and it's another log to support QRP in the contest!

Thanks and don't forget.....next one is in 6 months! See if you can double your score!

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Mon, 9 Feb 1998 14:09:29 -0800
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [3439] What a weekend: rain, gales, antenna, contests
Message-ID: <01bd35a7\$641ffb30\$309f5ecf@double_trouble.reliablemeters.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Yes, what a weekend here at K1MG.

Earlier in the week, I cranked the tower down two thirds in anticipation of the predicted 70 mph winds and knowing that I had to repair the new FoxCatcher antenna. So on Saturday morning the inverted V was lying on the roof, the 40 meter FoxCatcher was out of commission, and the tri-bander was at 28 feet. I went to the office to meet the emergency shipment of repair materials for the FoxCatcher, and drove home in the heaviest rain storm that I've ever seen in California, close to the hurricanes I experienced in my youth on the east coast. Antenna work was definitely out of the question on Saturday, so I figured I would do FYBO and the NA Sprint on 20 meters with the lowered beam. Did I mention that I was also Mr. Mom while my wife worked? Thanks to Mr. Disney, I was able to get a two-hour period in the

afternoon to play radio with only a few interruptions.

I had the rig tuned up on 20 meters when the clock struck 0000Z . At 0002Z I realized that I was out of practice and out of shape for this kind of contest (NA Sprint). Took half a dozen QSOs before I felt halfway comfortable with the rapid exchanges at 45 wpm. I also realized what a disadvantage it is to do paper logging. I kept at it and managed to come up with 45 QSOs in 18 SPCs. I'll probably lose a few due to logging mistakes, though.

The NA sprint was a lot of fun. This is a great contest for QRP operation. Part of the problem with QRP in most contests is that only the QRO stations can hold a frequency, so QRPers mostly use hunt and pounce. This means that QRPers will only work QRO stations. With the sprint, everybody has to hunt and pounce, so everybody has an equal chance. The exchange is a little more interesting than "599 QRZ?".

My biggest problem was with receiver overload. I ran the whole time with the TS570D preamp off and the receive attenuator on. I still had about 6 stations who were S9 all across the 20 meter band, several of them were hard to copy on frequency because I could hear their transmitter backwave at S9+20db! My 5 watts didn't blow out anyone's front end, but it didn't seem to be a disadvantage. I had reasonable success with CQs and quite a few QSO pickups (where another station calls you after you finish the exchange with a station -- a nice feature of the sprint). I did miss two or three possible QSOs, but could mostly work everyone I heard. One exception was K10J, who wouldn't answer me on 20 meters or 40 meters! The only other famous QRPer I came across was KU7Y, who was a little too weak off the backside of his antenna to copy well, underneath the S9 intermod. Next to receiver overload, the next biggest score inhibitor was my hand logging/memory duping technique. I guess I've got to break down and enter the modern world of computers! It wouldn't hurt to warm up with a couple QRQ QSOs before the contest adrenaline hits, either.

The thunderstorms came through about the same time that the Disney movie ended, so that's when I pulled the plug.

I didn't hear any FYBO activity on 20 meters at all. Later in the evening, I got a chance to get back on the radio for about 10 minutes, and 20 was dead, so I tried my down-on-the-ground (non) inverted V on 40 meters. I managed 2 NA Sprint QSOs, but K10J couldn't hear me, and neither did any of the FYBOers who I called. What a difference in code speed between 40 and 20 meters. The NA Sprint activity on 40 was 10 to 15 wpm slower than on 20! Don't know why this should be so because they are the same operators.

The NA sprint is definitely a keeper for next year, and hopefully we won't have to work both contests at the same time. I wonder what would happen if I asked each sprint op to give me his temperature?

Sunday morning saw the winds die down a bit and the rain dropped to a simple downpour, so I got up early to start work on the antenna repairs. Only had an inch or two of water remaining around the tower. Spent most of the day Sunday wrestling with half a ton of tower and antennas in the rain, but I got the FoxCatcher repaired and retuned and up to about 45 feet. I will raise it to the full 63 feet and put the inverted V G5RV back up by Wednesday's foxhunt. Seems to work. Heard C08FB working a pileup on the low end of 40 on Sunday night but couldn't figure out why everybody wanted to work him instead of the other Cubans on the band. Was he on a DXpedition somewhere? Special Event station? ??

Speaking of foxhunts, don't forget the day-glo(tm) fox on Thursday night! Let's see if this FoxCatcher works in reverse.

Mike K1MG

Date: Mon, 9 Feb 1998 14:20:11 -0800 (PST)
From: "Allan G. Taylor" <ataylor@heracles.llnl.gov>
To: qrp-l@Lehigh.EDU
Subject: [3440] status of W6CYX Power mod for NC40, other mods
Message-ID: <199802092220.0AA25496@heracles.llnl.gov>

I have been looking into a simple way to up the power of my NC40. After scanning the March and June 1994 QRPP journal, I found a simple solution that might not work. The mod in question, by W6CYX, is to replace C46 (860pF) with a 680pF SM. One builder, WW7Y, reported that the above mod did NOT work. What is the consensus regarding this simple mod?

Another mod I have read of is to replace Q7 with a MRF237. Are there any mods to the output network if this is to be done?

My target is a conversion that will put out 2.5 W at 10V, 4W at 13.8V and 5+W (sorry for the QRO reference) at 15V. Preferably without rewinding toroids! (I don't ask for much).

I am going to be putting in a two-stage RIT mod to allow very fine tuned offset for QRPer chasing and a wide-range offset for a future DXing venture to the hills overlooking the Pacific (Pt Reyes...overlooks the old Marconi site). Also will be putting in a variable bandwidth mod. Sure wish it had FULL (Tentec-definition) QSK, but it is well-behaved otherwise.

BTW: I have the Wilderness Radio 40A/Rev B.

Please direct replies directly to me as I am on DIGEST mode with QRP-L.

K7GT

k7gt@qsl.net

Date: Mon, 09 Feb 1998 22:28:47 +0000
From: Ed Loranger <we6w@qsl.net>
To: wb5rue@stic.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [3441] Re: Slant-front project boxes
Message-ID: <34DF831F.3761@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Absolutely! I like soldering up PCB material to make my boxes and shielding as I build my project on the base material.

My Pixie2 I built for the Christmas Pixie/40-9ER contest was built this way.

One trick I use is to tack the middle and corners until I'm sure that wall or RF shield is ready to be permanently soldered. A nice bead of solder along each seam is a testimonial to RF tightness.

I know some of you will just build a box with PCB material, but if you use some solder strips with insulated solder lugs on them, you can build common +Voltage points, or whatever.

For that one or two IC's you might need, I usually exacto Knife some traces on a board slightly larger than the IC. Then I solder the socket in place after solder coating the traces. The little board is epoxied onto my groundplane and the IC inserted into the socket. I've made many of these and have no problems.

It is slightly time intensive though. But it is nice that you can make just about anything, or modify, as needed, with those parts in your junkbox.

I never wait when I get an idea. I proto on the solderless

breadboard. Make sure it works. And build with pcb stock, hacksaw and files.

OH, one last tip: I have a heavy duty leather punch. It pops holes in PCB quite easily. It doesn't have the punch for the larger Audio Jacks, but makes excellent holes for the coaxial power jacks, screws, stand-offs. And with your semi-round file, you can make the holes larger anyway.

Regards,
Ed

--

Recipient of coveted Samuel F. B. Morse Award, NTTC Pensacola, FL 1977.
72/73 de we6w qrp es CW ONLY; Member: QRP-L/ARCI/Norcal/ARS/AR
<http://www.qsl.net/we6w> (From Non-Ham to Extra in one Day.)

Date: Mon, 9 Feb 1998 22:39:15 +0000
From: "Lageson's" <LAGESON@worldnet.att.net>
To: qrp-l@Lehigh.EDU
Subject: [3442] FYBO "Numb"ers-WQORP
Message-ID: <19980209223914.AAA1873@LOCALNAME>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>To: QRP-L
>From: Lageson's <LAGESON@worldnet.att.net>
>Subject: FYBO "Numb"ers-WQORP
>
>The MN QRP Society had perfect WX for this years FYBO. Bright sunny skies, no wind and mild temps. When I started out to our site at 7:30 am the temp was 12 deg. If we can just stay below 20 deg at the 10:00 start time we can claim the big mult. At 9:00am we were at 17 deg..... this was going to be close. Well no such luck, we were at 22 deg when the gun went off starting FYBO.
>
>Our site was at the Minnetonka Community Center, we set up next to a frozen pond with our only shelter being a tent canopy, truly a FD site, but without the bugs (just a few Benchers). With no tall trees for wire antennas we put up a R7 vertical for 10-40 meters, and a 80 meter mobile antenna. Rigs were a FT-900, and a IC-706. Logging was done on a laptop. We had a good turnout, having a club meeting that afternoon helped I'm sure.

Like I said the WX was perfect, we even broke the 40 deg mark. A slight breeze came up in the afternoon and 40 deg seemed plenty chilly. As soon as the sun started going down so did the temps., it cools off fast on those

cold clear nights. Things really slowed down as far as our QSO rate so now came the big question, do we pull up stakes and head home or stick it out for the below 20 deg mult? I didn't take long to decide to go for the "cold". Finally just after 0100Z we were at 18 deg, now get a qso and go home.....we sat there on 80 meters for 25 minutes calling CQ,..... and calling CQ, tuning around for any other FYBO'r, noththing! Finally K8ZAA (thank you Randy) called and was in the log, we even got one more a few minutes later and that was enough.

>

Final "numb"ers 123 Q's, 37 SPC, field-alt-temp mults = 218,448 Total points.

I don't want to start listing names in our group, I'll just miss too many, but heros weren't the ones behind the key, we were well feed and equipped. It just one of those days were everything worked and mother nature was on our side. We took lots of photo's, hope to get some on our web site soon. Thanks to everyone who worked us.

72's MN QRP Society

Date: Mon, 9 Feb 1998 17:36:00 -0500
From: "Bob Kellogg" <ae4ic@nr.infi.net>
To: <qrp-l@Lehigh.EDU>, "Bob Hodgins 919- 405-3620" <hodgins@rtp.semi.harris.com>
Cc: "Gary O'Neil" <rflight@vnet.IBM.COM>, <hodgins@rtp.semi.harris.com>
Subject: [3443] Re: SMiTe interim report
Message-ID: <199802092309.SAA23369@mailhost.infi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Bob,

> Received the envelope January 31. Built it in about two and a half
> hours of relaxed effort over three days.

You didn't tell us if this was your first attemp at Surface Mount. Was it?

> What a great way to package
> the parts! Just about impossible to make a mistake. I would have
> liked to have seen the assembly line that put the kit package together.
> Certainly a very labor intensive but effective presentation -- thanks,
> volunteers! [Components are individually taped to an enlarged parts
> layout.]

Thank you very much. So far, I've been the assembly line, but that's OK, I'm an old Industrial Engineer and wanted to work out some good assembly techniques. There are several Knightlite volunteers waiting in the wings.

In my opinion, it was an easier assembly job in surface mount than
> it would be in through-hole.

That's the conclusion I came to. It's just getting over the initial hesitation about dealing with such small parts.

> Current draw, Receive: 8.8mA at 9V
> 11.1mA at 12V
> 13mA at 15V

I have to say here that the KnightSMiTe is designed for 9V. You probably can push that a little, but there are some tantalum capacitors on board that are rated for 16V, and they don't like to be pushed *at all*. I would not use over 12V on it myself.

> Receive, with a tuned antenna: I could hear some high pitched CW,
> maybe 1500Hz, but the 0Hz to 1000Hz range was dominated by gawd awful
> buzzing that wiped out every thing else. Sounded like a model-T
> vibrating ignition coil. You remember those, Bob. I tried running it
> through my MFJ DSP, but it just rolled over and played dead. Receiver
> is fairly quiet with antenna shorted.

Do you think that buzzing could be caused by capacitors that are no longer working? :-)

Actually, mine does that, too, but just when it's overloaded by a very strong signal, however, I'll pass your note on to one of the Design Knights, who may be able to comment.

> Yet to do: get out the oscilloscope and look for oscillations -- maybe
> audio/mechanical feedback? Mount the board to something rigid. Mount
> in a metal box. (Waiting for my SM Tick keyer board before I mount the
> pair in an Altoids tin.) Try it when 80M is in good shape. Measure
> real power out.

> Anybody else out there getting similar results?

Thanks for the feedback, Bob, Keep us posted!

CUL,
Bob Kellogg, AE4IC, Greensboro, NC
Prolably, but not nececelery. -- Benny Hill

Date: Mon, 09 Feb 1998 18:03:27 EST
From: kh6b@juno.com (Dean W Manley)
To: qrp-1@Lehigh.EDU
Cc: kh6b@juno.com
Subject: [3444] W1FB Pixie Info
Message-ID: <19980209.130230.5391.0.kh6b@juno.com>

Aloha gang. Thanks to all that responded to my request.
Rick WA8RXI, will be sending me the info which I'm grateful.
Most answers to my Q refer me to various web sites. It
looks like it is getting close for me signing up with a internet
provider.

73 and Aloha, Dean Manley KH6B
ARRL Life Member, HI Chapter QCWA, ARCI 6257,
QRP-L 1032, G-QRP 9941, HI-QRP 1, AK-QRP 339,
NorCal 1928, NW QRP 470, OOTC 3642
kh6b@juno.com VTI / W9SAL

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Date: Mon, 9 Feb 1998 17:33:16 -6
From: "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
To: lbbarley@feist.com, qrp-1@Lehigh.EDU
Subject: [3445] Re: One Way Skip - DX -- FRUSTRATION!
Message-ID: <199802092328.SAA21458@sparticus.bright.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Bruce and the group:

Re: One way propagation

Just a quick note on the ears of the Europeans on 40..... I lived
over there for 5 years back in 1978-83, and 40 at night over there is
un-believable. The foreign broadcast in the states is loud - we have

all put up with it at night, but in Europe you can add 20 to 40 db to those signals. The average Ham Receiver just can not cope with all that RF coming in the front end.

It takes a pretty good signal from over here to compete with all that noise, or a pretty good receiving setup over there to hear though it all.

Keep trying Bruce - you will get there!

73 - Bill - N8ET
Kanga@bright.net
www.bright.net/~kanga/kanga/

End of QRP-L Digest 996

